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## THE PUBLIC HEALTH ORGANIZATION OF DENMARK<sup>1</sup>

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## Introduction

In order to understand fully the public health service of Denmark, one must know something of the country and its people. An opportunity was afforded the writer in 1926, as the representative from the United States at an international interchange of public health officers under the League of Nations, to participate in an intensive study tour of the public health organization of that country.

Denmark presents a very interesting field for the student of any problem of social welfare and particularly for the student of public health. It is a small country, with an area of 16,600 square miles and a population of about 3,400,000. This population is approximately the same as that of the State of Missouri, which State has four times the area of Denmark. The capital and largest city is Copenhagen, with a population of 575,000. Adjacent to and partially surrounded by Copenhagen is the next largest city, Frederiksberg, with a population of 104,000. Denmark is a farming country; 31 per cent of the people earn their living by agriculture, and 57 per cent of the population live in rural districts. The country has a homogeneous population, 97 per cent being native born. The people are above the average in physical fitness. Standards of living and of education are high, and there is a comparatively even distribution of wealth, with a relative absence of poverty.

Mortality rates are very favorable; the general death rate is under 12 per thousand, and the birth rate, although declining, is nearly double the death rate. The average expectation of life is 58 years. The infant mortality rate has been consistently under 85 per thousand live births for several years. It is somewhat lower, and is declining more rapidly in the cities than in the rural districts. Typhoid fever has declined almost to the vanishing point, there having been less than one death per 100,000 inhabitants for each of the past five years. The mortality and morbidity rates from diphtheria

<sup>&</sup>lt;sup>1</sup> Much of the information presented here was secured from "Health Organization in Denmark," published by the Health Section of the League of Nations; from the National Board of Health of Denmark; and from the Danish public health officials, to all of whom the writer makes grateful acknowledgment.

have fluctuated somewhat, but the general trend has been downward, and for 1924 the diphtheria death rate was 6.5 per 100,000. Scarlet fever, likewise, has declined, and for 1924 the death rate from this disease was 0.9 per 100,000. The tuberculosis death rate is declining and is now the lowest of any country in Europe. A more complete discussion of the tuberculosis rate will be given in connection with the section dealing with that disease.

#### The Central Government

The Government of Denmark is a limited monarchy, in which the legislative power lies with the King and Parliament and the executive power with the King and 11 ministers chosen by him, each of whom is at the head of a special administrative department.

The public health activities of the Government are distributed among several ministries. There is given below a summary of the more important public health and public welfare activities.

The Ministry of Home Affairs, through the National Board of Health-

- 1. Approves and superintends the enforcement of health and sanitary legislation and local regulations.
  - 2. Approves plans for hospitals, charitable institutions, and childrens' homes.
  - 3. Acts as consultative body for other branches of the Government.
  - 4. Makes proposals to local authorities concerning necessary health measures.
  - 5. Collects, prepares, and publishes medical statistics.

The Ministry of Justice-

- 1. Through medicolegal council gives all legal medical opinions necessary to determine the legal position of individuals.
- 2. Enforces laws governing narcotics, quarantine, prostitution, the mentally deficient, the insane, the inspection of foods, milk, cream, etc.
  - 3. Conducts inquests, legal autopsies, etc.

The Ministry of Social Affairs (Public Welfare)-

- 1. Supervises all child welfare activities, including children's homes and care of foster children.
  - 2. Supervises sick-benefit clubs, invalidity and accident insurance.
- 3. Cares for insane, mentally deficient, deaf, blind, and crippled, and administers the State institutions in connection therewith.
- Supervises tuberculosis hospitals and sanatoria and public aid for treatment of tuberculosis.
  - 5. Regulates industrial hygiene and accident prevention.

The Ministry of Education-

- 1. Administers the State Hospital (Rigshospital), in connection with the State University.
  - 2. Trains physicians, pharmacists, dentists, midwives.
  - 3. Supervises school hygiene.

The Ministry of Agriculture-

1. Administers veterinary affairs.

2. Supervises dairies, slaughterhouses, meat, and, partly, milk inspection.

The country now<sup>2</sup> has a socialist government, which, however, has not introduced any drastic changes in policy, since for many years Denmark has been a highly socialized country.

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As will be seen from the above outline, the public health service of the Government is mainly under the National Board of Health. This board is presided over by a president (a physician appointed by the King). Under his direction are a medical council and a chemists' council, each in charge of a vice chairman. The personnel of the board is not extensive, consisting, in addition to the above, of a leader of the office, a medical secretary, a legal secretary, two statisticians, and six clerks. Attached to the National Board of Health are a number of expert advisers, or consultants, to whom are referred important questions relating to their particular speciality. There are now advisers in hygiene, bacteriology and epidemiology, pharmacology, tuberculosis, psychiatry, dentistry, and pharmacy.

Independent of, but in close connection with, the National Board of Health is the State Serum Institute, the director of which is the consultant in bacteriology and epidemiology. The State Serum Institute is the central epidemiological laboratory for the whole country.

The National Board of Health now has a field force of 73 district medical officers, 23 of whom also act as county medical officers of health, and 4 district medical officers on the Faroe Islands, 1 of whom is county medical officer. All of these are appointed and paid by the State. These are all part-time officials who give a varying amount of time to their official duties, depending upon the population and problems in their jurisdiction. In Copenhagen is a chief medical officer of health (a full-time official) with several assistants. The duties of the district medical officers may be enumerated as follows:

- 1. Receive weekly or current reports of contagious diseases from all physicians; make weekly reports to the county medical officer; and make monthly reports to the National Board of Health and to the county medical officer.
- 2. Order disinfection of premises when necessary, and take special steps where necessary to prevent the spread of contagion, after consultation with epidemic committee, as regards sale or handling of milk or food, discontinuance of occupation, etc.
- 3. Receive monthly from the vicar of each parish all birth and death certificates and forward them through the county medical officer to the National Board of Health.
  - 4. Make an annual report concerning morbidity, mortality, and births.
- 5. Superintend the work of midwives, and keep in touch with doctors, dentists, pharmacists, and nurses, supplying them with registration forms, informing them of reports to be made, etc.

<sup>&</sup>lt;sup>1</sup> December, 1926, a liberal government came into office. A Ministry of Health replaced the Ministry of Social Affairs. Practically all public health activity is now under this new ministry.

- 6. Serve as a member of the locally appointed epidemic and health committee in their home districts and attend meetings of other committees in their jurisdictions.
- Supervise the sanitary conditions in all public institutions, schools, dairies, and food establishments, and have general responsibility for the sanitation and health of their districts.
- 8. Treat all cases of venereal disease applying to them. (In the larger districts other specialists paid from public funds, are provided for giving venereal disease treatment.)
- 9. Hold vaccination clinics twice annually in the towns and once annually in every rural township. Should smallpox occur, daily vaccination is arranged for.
- 10. Act as legal advisor to the courts, especially reporting on the mental condition of a patient, acting as coroner, and examining intoxicated automobilists.

The county medical officers, in addition to the duties devolving upon them as district medical officers for the districts in which they live, supervise the work of all district medical officers, direct campaigns against extensive outbreaks of disease, make an annual inspection of all pharmacies, direct and judge the work of midwives, prepare annual reports for the whole county, and serve as members of the county epidemic committee.

## The Local Government

For administrative purposes the country is divided into 23 counties, with a county council elected by the people and with a lord lieutenant appointed by the King, who is chairman of the county council.

Lords lieutenant are assisted by 72 chief constables. In each county there is a county epidemic committee, consisting of the county commissioner (i. e., the lord lieutenant) as chairman, the county medical officer, and three members appointed by the county and town councils. Each police district, which includes several rural parishes, has a local epidemic committee consisting of a chief constable, a district medical officer of health, and three members elected by the county council. The rural districts are divided into a total of 1,130 parishes, each with a parish council. In about two-thirds of them there is a local sanitary committee, which looks after sanitary conditions generally.3 There is a total of 88 boroughs (incorporated towns), each with a town council and a local epidemic committee. The city of Copenhagen has a special form of government not subject to the jurisdiction of any county, but responsible directly to the corporation of the city and, in certain respects, to the National Government. With the exception of the lords lieutenant, chief constables, and medical officers of health, who are appointed by the

<sup>&</sup>lt;sup>3</sup> The local epidemic committees are not identical with the sanitary committees of the rural parishes. Each police district, which includes several parishes, has a local epidemic committee, consisting of the chief constable (chairman), the district medical officer of health, and three members elected by the county council.

central government, the organization of the country is somewhat comparable to our county, township, and town governments. Local government is highly developed, and the administration of publichealth affairs is, to a great extent, decentralized.

## Medical Education

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All Danish physicians receive the same university education at the one national medical school, the University of Copenhagen, at which instruction is practically gratuitous, the fees for the entire course amounting to less than \$30. After a preliminary education corresponding to graduation from a high school in the United States, seven years of university education are required. The curriculum compares favorably with that in a Class A medical school of this country. There are about 900 medical students, and each year from 70 to 100 graduate. There is about one physician for each 1,600 inhabitants in the country. It was of much interest to learn that quackery has been forbidden since 1672 and that there are practically no unqualified physicians in the country.

In addition to the university education, the candidate must attend a course in obstetrics at the State lying-in hospital in order to get a full license, and most physicians continue their training for one or more years in a hospital. All who aspire to be specialists must take several additional years of training under rules laid down by the Danish Medical Association, which organization publishes each year a list of approved specialists. A small minority of Danish physicians qualify themselves as "university doctors," which gives a right to lecture at the university.

Since 1914, special training has been required as a prerequisite for appointment as a medical officer of health. This consists of a four months' course in hygiene, vital statistics, forensic medicine, psychiatry, bacteriology, epidemiology, venerology, and sanitary law. Before being admitted to this course the applicant must have passed all medical examinations, must have served one month in a maternity hospital, six months in a medical and six months in a surgical hospital department, three months in an epidemic hospital, three months in a psychiatric hospital or asylum, and three months as a practitioner in the country or in a small town. In brief, the requirements for qualification of a medical officer of health consist of 26 months' theoretical and practical training in addition to being a medical graduate.

The uniformly high standard of medical education in Denmark for all physicians has insured a good quality of medical service, and as a result, the physicians are held in high esteem by the people. The economic and social condition of the doctors on the whole seemed

to be comparatively better in Denmark than in the United States. Only 20 per cent of the medical service is classified as "private practice," the remainder being by contract with the sick benefit clubs and through employment by the local and state governments. The furnishing of medical treatment will be discussed elsewhere in this report under the sections dealing with hospital service and sick benefit clubs.

Dentists.—Students of dentistry are required to take a three-year course in the School of Dentistry, and after graduation must serve as clinical assistant for two years before being allowed to practice. There are about 600 dentists in the country.

Nurses.—The training of nurses compares favorably with that in the United States, a three-year course of theoretical and practical training being required. There are about 5,500 graduate nurses in the country. Recently sick benefit clubs have employed nurses extensively to give bedside care in the homes of their members, and the city of Copenhagen has begun home nursing to relieve pressure on the hospitals. Public health nursing, however, has not developed as yet to an appreciable extent, but a great number of parish nurses work in rural houses in cooperation with the physicians.

Midwives.—All births must be attended by a midwife (or a doctor); most births are attended by midwives. For complicated cases requiring the use of instruments, a doctor must be summoned. The death rate from puerperal sepsis is low, being less than 1.0 per

1,000 live births.

All midwives must take a course in training at the State hospital lasting one year and pass an examination. Their practice is supervised carefully by the medical officers of health. There are 1,100 midwives in the country, of whom 75 per cent are paid partly by the State and local governments to assure attendance at all-births.

## **Hospital Service**

The whole public health movement in Denmark has been centered around the practice of medicine and particularly around the hospital service. So far as the writer is aware, there is no country in which the hospital service has been more fully developed whether viewed from the standpoint of type of buildings and equipment, quality of the service rendered to the average citizen, extent to which hospitals are used, or cost of the service to the patient.

Practically all of the general hospitals in Denmark are public institutions constructed by the municipalities or counties, or jointly by the two. The hospitals are well distributed over the country. Practically all of them are general hospitals in the truest sense, having special wards or buildings for the diagnosis or treatment of tuber-

culosis, for the treatment of epidemic and venereal diseases, and for the temporary hospitalization of mental cases. The closed staff principle is universal, and the hospital physicians live on the hospital grounds. When a case is sent to a hospital, the attending physician loses all responsibility for the patient. The municipal hospitals are under the direction of a special branch of the municipal government; those operated jointly by a city or county are jointly administered. The director, i. e., the head physician (or physicians) is usually employed on a part-time basis, being allowed to supplement his salary by private consultations at the hospital.

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An opportunity was afforded the writer to visit a number of the Danish hospitals in Copenhagen and in the provincial towns. One of the most interesting institutions visited was the State hospital in Copenhagen, operated by the Department of Education primarily as a teaching center for the university medical school. The director of each department is ex-officio professor in the university. This institution has accommodations for 1,000 patients; it was completed in 1910 at a cost of \$2,000 per bed. Fifty-three per cent of the patients pay only 50 cents per day, and 20 per cent of them pay nothing. The operating cost is about \$3.50 per patient per day, of which 16 per cent is paid by patient's fees. The training school for midwives is operated as a part of this hospital, and there is a large nursing school.

The city of Copenhagen expends nearly \$4,000,000 per year for its general, tuberculosis, and insane hospital services, representing an annual per capita expenditure of approximately \$6. The average cost per patient per day is slightly over \$3, and this average cost seems to prevail generally throughout the country.

The cost of hospital construction in Denmark is nearly as high as that in the United States. The buildings are of a very permanent nature and are well equipped as regards furniture, laboratory, X-ray, hydrotherapy, heliotherapy, and physiotherapy departments.

Private rooms comprise only 10 per cent of the whole hospital capacity, the favorite arrangement being a system of four to six bed wards, in which adequate floor and air space is provided.

Every county has one or more large central hospitals and several smaller ones. In all, there are 175 general hospitals in Denmark with more than 14,000 beds, or 4.5 beds per 1,000 inhabitants. This compares with 2.6 general hospital beds per 1,000 in the United States. The number of patient days amounts to 4,300,000, or 1.4 days in general hospitals for every inhabitant annually, as compared with 0.61 patient days in the United States. In the accompanying table there is given a summary of the information secured concerning the number and type of hospital beds.

TABLE 1.—Hospital beds in Denmark and the United States

| Num-<br>ber of<br>hos-<br>pitals | an even no evil commission but the one even an                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Den                                          | mark                               | United<br>States.           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------|-----------------------------|
|                                  | The street of a site, Type 200, and there were the street of the second of the street | Number<br>beds                               | Beds per<br>1,000 in-<br>habitants | 1,000<br>inhabi-            |
|                                  | Medical and surgical. Contagious. Skin and venereal. Temporary mental.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9,606<br>3,090<br>1,041<br>308               | 3.1<br>1.0<br>.3<br>.1             |                             |
| 175<br>62<br>6<br>4<br>(7)       | All general hospitals. Tuberculosis institutions Insane asylums Feeble-minded and epileptic. All others.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14, 105<br>3, 458<br>5, 900<br>3, 632<br>(?) | 14.5<br>1.1<br>11.8<br>11.1<br>(7) | 2.6<br>.44<br>} 3.0<br>1.64 |
|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                              |                                    |                             |

Hospital Service in the United States. J. A. M. A., vol. 86, No. 14: 1009.
 Not including hospital beds in old-age homes and institutions.
 Not including 308 beds in general hospitals for mental cases.
 Not including special schools in Copenhagen for 300 or private homes with 350 feeble-minded children.

In comparing the hospital facilities of Denmark and this country it should be noted that Denmark has 4.5 and the United States 2.6 general hospital beds per 1,000 inhabitants, and that in Denmark these beds are 87 per cent and in the United States 67 per cent occupied.

The number of beds per capita for mental and nervous cases is approximately the same in the two countries. The number of beds for tuberculosis cases in Denmark is 1.1 per 1,000 inhabitants, and in the United States 0.44. The number of beds in all types of hospitals is for Denmark 8.5 per 1,000 inhabitants, and for the United States 7.1. The figure for the United States, however, includes 1.0 bed per 1,000 in institutions, such as old age homes, etc., while this class of hospital bed is not included in the Danish statistics.

## The Control of Communicable Diseases

Measures against epidemic diseases are placed in the hands of local epidemic committees, under the supervision of the National Board of Health, through its county and district medical officers. Reports of cases of contagion are sent each week by all medical practitioners to the district medical officer. When an epidemic occurs, immediate reports are required. Immediate reports are required also for cases of typhoid fever, diphtheria, scarlet fever, meningitis, and poliomyelitis, when they occur at a school or in a house from which milk or food is sold. The diagnosis of contagious diseases is facilitated by the legal right to gratuitous admission to a hospital and by the laboratory facilities which are available at the State Serum Institute and at all local hospitals.

The majority of cases of contagion are isolated in a public hospital, at which gratuitous treatment is provided if they are admitted immediately after the diagnosis is made. Isolation hospitals are plentifully supplied, one bed per 1,000 inhabitants being available. In the larger cities, special hospitals for contagious diseases are used, and in the smaller towns an isolation ward is attached to every public hospital. The hospitalization of a great majority of cases is looked upon as a matter of course. About 90 per cent of all reported cases of diphtheria are hospitalized, and practically all cases of typhoid fever, meningitis, poliomyelitis, and scarlet fever. According to estimates, about 20 per cent of measles and whooping cough patients are hospitalized in Copenhagen; but outside of Copenhagen only a very few are hospitalized. The cubicle system of isolation is not generally practiced, separate rooms or small wards being available for each disease. The local epidemic committee can compel hospitalization in any case in which it is deemed desirable.1 Cases are released from quarantine by the attending physician. Cases of typhoid fever are not released until three consecutive examinations of urine and feces have been found negative. The local epidemic committees have wide powers in the control of disease carriers.

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Owing to the large number of dairies throughout the country, special measures are taken for the prevention of milk infection; and when the sale of milk or milk products is prohibited, compensation is given for losses. The same is true when typhoid or diphtheria carriers are required to discontinue their occupation involving the handling of food and milk. When a case of contagion occurs in a school child the practicing physician notifies the school authorities of that fact. The Minister of Education issues special regulations concerning the control of contagious diseases in schools.

For many years it has been the fundamental rule in Denmark that all expenses in connection with contagious diseases should be borne by the public. The local communities furnish hospital and medical facilities, but the treatment proper is divided between the State and commune, one-half or three-quarters being paid by the State, depending upon the nature of the treatment. The cost to the State (central government) for this service varies between \$500,000 and \$600,000 per annum.

It was interesting to note that epidemiological studies of diseases are not ordinarily made by medical officers except during epidemics. In fact, the primary responsibility for and control of contagion is

<sup>&</sup>lt;sup>1</sup> In Denmark there are two forms of gratuitous treatment of communicable diseases: (1) The more endemic communicable diseases—diphtheria, scarlatina, typhcid fever, cerebrospinal meningitis, and others—may be gratuitously treated in an isolation hospital. Such treatment is not compulsory, but is offered to induce patients to be isolated. The offer is usually accepted. (2) The rarer and more dangerous communicable diseases, such as plague, cheiera, smallpox, yellow fever, tropical dysentery, etc., are subject to compulsory treatment by public arrangement at public cest, and isolation (in hospital) is compulsory.

placed upon the attending physician and the hospital. Cases of contagious diseases appear to be notified to a degree of completeness which is gratifying. In Table 2 is a comparison of the case incidence, and case fatality rates for certain diseases in Denmark and in the United States.

Table 2.—Case incidence and case fatality rates for Denmark and for the reporting States of the United States, for certain diseases, 1923

| hitelaye's eyes live on right | Denmark                                                                      |                                           |                                                    |                                        | United States !                                             |                                  |
|-------------------------------|------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------|----------------------------------------|-------------------------------------------------------------|----------------------------------|
| Disease                       | Cases                                                                        | Deaths                                    | Case<br>incidence<br>per 1,000<br>inhabit-<br>ants | Case<br>fatality,<br>per cent          | Case<br>incidence<br>per 1,000<br>inhabit-<br>ants          | Case<br>fatality,<br>per cent    |
| Typhoid fever Diphtheria      | 580<br>5, 690<br>3, 851<br>32, 166<br>2, 893<br>26, 446<br>11, 115<br>2, 496 | - 43<br>155<br>39<br>179<br>2, 245<br>677 | 0.19<br>1.8<br>1.3<br>10.7<br>.9<br>8.8<br>3.7     | 7.4<br>2.7<br>1.0<br>.5<br>77.0<br>2.6 | 0. 32<br>1. 31<br>1. 56<br>7. 72<br>1. 61<br>1. 44<br>1. 68 | 22. 4<br>8. 69<br>1. 96<br>1. 38 |

<sup>&</sup>lt;sup>1</sup> Rates published in Public Health Reports, vol. 30, No. 47, Nov. 21, 1924, pp. 2889, et. seq.

Skin tests (Schick and Dick) to determine susceptibility to diphtheria and scarlet fever are not used to any appreciable extent, and active immunization against these diseases is not practiced. Diphtheria antitoxin is used in very large doses. The case fatality from this disease for the whole country is 2.7 per cent, and for those cases treated in the epidemic hospital in Copenhagen, 2 per cent. These rates compare with a case fatality of 8.687, in the United States.

Throat cultures formerly were taken from diphtheria and meningitis carriers, but this procedure has been abandoned. An interesting feature of whooping cough control is the routine laboratory diagnosis of the disease provided by the State Serum Institute. This enables an early diagnosis before the onset of the "whoop." This method of diagnosis is said to be accurate in more than 90 per cent of the cases.

Smallpox vaccination.—Vaccination has been compulsory in Denmark for 116 years, and there is, on the average, scarcely one case of smallpox per year occurring in the whole country. When cases of smallpox occur, they are always imported cases. A great majority of vaccinations are done at public expense. In Copenhagen a staff of public vaccinators is employed. In the small towns, vaccination clinics are held twice annually, and in the rural districts, once annually by the district medical officers. The thoroughness of vaccination is controlled by the requirement that all children must be vaccinated before being admitted to school and for the male population, by the revaccination of conscripts. The National Board of Health brings

pressure to bear for the revaccination every seven years of persons who are likely to be exposed to smallpox. All of the vaccine virus used in the country is prepared by the Royal Vaccination Institute and is furnished free to medical officers and to practicing physicians.

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Tuberculosis control.—Tuberculosis in Denmark, as in other countries, is an important public health problem and one toward the solution of which much money and effort have been expended. the campaign against this disease first thought apparently has been given to institutions for the isolation and treatment of early cases and more advanced cases. With 109 beds per 100 annual deaths, Denmark has, proportionately, more institutional accommodations for the treatment of tuberculosis than any other country, and about 2.5 times as many beds per annual death as the United States. connection with this fact some Danish physicians also invite attention to the death rate in Denmark, which is the lowest of any country in Europe. For each annual death from the disease 2.5 patients are admitted to tuberculosis institutions, but only about one-half of this number of cases are reported to the health authorities. In Copenhagen, 70 per cent, and in the remainder of the country 33 per cent of all deaths from pulmonary tuberculosis occur in institutions. Several types of tuberculosis institutions are in use. In connection with many of the general hospitals, beds are available for tuberculosis cases. These are of two classes: (1) suspected cases which are hospitalized for diagnosis and classification as to type prior to admission to a sanatorium; and (2) advanced cases for whom sanatorium treatment would be apparently of no value. In all there are nearly 1,000 tuberculosis hospital beds. There are 16 tuberculosis sanatoria located in different parts of the country with nearly 1,400 beds: 3 seaside hospitals with 375 beds for the treatment of advanced nonpulmonary tuberculosis; 9 seaside sanatoria with 480 beds for the treatment of scrofulous children, and a number of other types of institutions, such as invalid's homes, for very chronic cases, a day-cure resort for the partially incapacitated, and a specially constructed apartment for families with a tuberculous member.

Open-air schools and open-window rooms for "pretuberculous children" are not used in Denmark. In Copenhagen and Fredericksberg there are two open-air schools for children with infective tuberculosis; and children with enlarged glands or children from tuberculous families are sent to seaside camps, at least one of which is maintained as a part of the school system of Fredericksberg.

The average length of stay for patients in sanatoria is between five and six months. About 40 per cent of all pulmonary tuberculosis patients admitted to sanatoria are in the advanced stage, and 25 per cent are in the incipient or minimal stage. The sanatoria are

well constructed and the methods of treatment are not different from those in similar institutions elsewhere. Sanocrysin is used in some of the institutions visited, being given in small doses beginning with 0.1 gram and increasing to a maximum of 0.5 gram. The treatments are given on alternate days, no serum being used in conjunction with the sanocrysin. In other institutions the use of sanocrysin has been discontinued. Opinions of the sanatoria directors as to the usefulness of this drug vary somewhat. Several of them maintain that it is of no value; others are equally sure that it has a field of usefulness, especially in the treatment of laryngeal tuberculosis.

The Finsen Light Institute, founded in 1893, gives 60,000 treatments each year to 9,000 patients suffering from skin and surgical tuberculosis. The director of the institute states that 90 per cent of the cases of skin tuberculosis are cured. Two types of treatment are used; the concentrated light therapy and the general light baths. In addition to the clinic this institute maintains 127 hospital and

sanatorium beds for the use of its patients.

It was interesting to note that heliotherapy has a very important place in the treatment of tuberculosis in Denmark, especially in the treatment of surgical, glandular, and laryngeal forms of the disease. Every general hospital visited was provided with Finsen and mercury quartz lights. The treatment of scrofula by sunlight is carried out extensively at many seaside holiday camps and sanatoria for children. The valuable custom has developed in Denmark of sending children from the larger cities to spend their summer vacations at farm homes. The State railways provide free transportation for them, and each year it is estimated that 25,000 children from Copenhagen spend their summers in the country.

The Government contributes generously to the construction and support of tuberculosis institutions, paying a varying proportion of the cost of the building and from three-fourths to five-sixths of the cost of treatment of persons "without means"—and this phrase is given a very liberal interpretation. The question of payment does not debar any patient from admission to an institution. In addition, relief is granted to families of tuberculous persons undergoing treatment, and where children can not or should not remain in the home, the municipality defrays the expense of boarding out the children.

Finally, very considerable government aid is given to tuberculosis dispensaries amounting to one-half of their operating expenses. The dispensary service is not developed to the same extent as the sanatorium treatment; only in the larger towns are there dispensaries with physicians in attendance. In the smaller towns and rural districts, dispensary service has not been developed, owing, it was stated, to the opposition of the family physicians to having their cases given over to the care of a dispensary physician. Even in

Copenhagen there is very poor coordination between the dispensary service and the sanatoria, although both the dispensaries and some of the sanatoria are under the management of the National Tuberculosis Association.

There is some visiting nurse service, the nurses being paid by sick benefit clubs or municipalities, but the instructive public health nursing service for tuberculosis and other diseases has not been developed to any extent.

Annual State grants for combating tuberculosis amount to more than \$1,000,000, or about 36 cents for every inhabitant, and expenditures by all agencies for this purpose amount to an estimated total of 50 cents per capita.

The infectiousness of tuberculosis seems to be emphasized in Denmark, as shown by the provisions of law which require a medical certificate of freedom from this disease for wet-nurses, employees in childrens' homes, day nurseries, and crèches, for foster parents and children; for teachers, midwives, and nurses; and even for certain government postal and railway employees. Compulsory isolation or hospitalization of open cases can be ordered by the local epidemic committees.

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Table 3.—Comparison of tuberculosis death rates per 100,000 inhabitants in Denmark and the United States

| Thursday 1 of the part of the contraction of the co | Cities       |                | Rural       |                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | All forms    | Pul-<br>monary | All forms   | Pul-<br>monary |
| Denmark (1924).<br>Registration area of United States (1923)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 110<br>95, 3 | 84<br>83, 1    | 92<br>91. 9 | 65<br>83. 9    |

In Table 3 a comparison is made between the tuberculosis death rates in Denmark and the United States. Of particular interest are the higher rates from nonpulmonary tuberculosis, especially in the Danish rural districts. It is suggested that the high prevalence of bovine infection and the small proportion of pasteurized milk in Denmark may be a factor in causing this condition.

The tuberculosis death rate has declined to a marked extent in Denmark. The death rate from all forms of the disease in the cities during the past five years is only 46 per cent of the rate prevailing for the first five years of this century. During the same period, the death rate from pulmonary tuberculosis has declined 42.9 per cent, although it is proportionately higher than in the United States. It has been impossible here, as elsewhere, to determine the relative importance of the many factors operating to bring about this decline. Along with the extensive efforts directed against the disease, important

sociological changes in the country have taken place. Standards of living have progressively improved, public education has been extended, much social welfare legislation has been enacted, general medical service has improved, and the physical education movement has grown rapidly. A decision, therefore, as to the relative influence of the direct measures of tuberculosis control and of the improved economic and social conditions of the country in bringing about a decline in the death rate will depend upon the point of view of the observer as to whether tuberculosis is primarily a sociological or a medical problem.

Venereal disease control.—For nearly 150 years regulations have been in effect in Denmark providing the public free treatment for all cases of venereal disease without regard to the ability of the patient to pay, and requiring all venereally infected persons to submit themselves to medical treatment. Free treatment and the obligation to submit to treatment have been the two guiding principles in the control of these diseases.

Reports of cases of venereal diseases are incomplete in Denmark as in other countries. In 1923, 11,115 cases of gonorrhea were reported, and 2,326 of acquired syphilis, giving a reported case incidence of 3.3 and 0.8 per thousand inhabitants, respectively.

Some estimate as to the presence and trend of venereal infections can be learned from the clinic records in Copenhagen, and from the number of Wassermann examinations made at the State Serum Institute, where all Wassermann examinations for the entire country are made. In Copenhagen, the number of cases of gonorrhea treated annually amounts to approximately 270 per 100,000, while cases of syphilis approximate 30 per 100,000 inhabitants. Some of the Danish physicians furnish an estimate that new infections of venereal diseases have decreased 33 per cent during the present century, and the opinion is generally held that syphilis in particular has decreased in prevalence. This result is attributed to the facts that patients seek medical treatment early in the course of the disease, that there is no unqualified medical practice or advertising of patent medicines, and that houses of prostitution have been abolished since 1901.

The facilities for treating venereal cases are most extensive. The furnishing of free medical treatment is one of the important functions of each of the 73 district medical officers of health. In one typical county, having a population of about 100,000, the health officer receives reports each year of about 500 cases of venereal disease; approximately one-half of these apply to the health officer for treatment. One-half of the cases of syphilis applying for public treatment in this district are hospitalized. Every general hospital in the country has special wards or special beds for skin and venereal cases, totaling, for the whole country, more than 1,000 beds. Cases of

venereal disease which are hospitalized can be held in the hospital until discharge is permitted by the medical authorities. In Copenhagen, seven venereal-disease clinics are operated by the city health department, employing a staff of 12 part-time physicians.

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There are three interesting institutions called "Welander Homes," which accommodate about 82 children suffering from congenital syphilis. In these homes, the children are given the best medical treatment in conjunction with hygienic care and education. They are discharged after several years' residence, when the maximum possible benefit has been secured from the treatment.

## Care of Mental Diseases

The care of mental disorders in Denmark is under the jurisdiction of the central government and is lodged in a special department in the ministry of social affairs. The National Board of Health is consulted concerning construction and sanitation of institutions, nutrition of the patients, etc. There are six State hospitals for mental diseases and two mental hospitals in Copenhagen, having a total bed capacity of nearly 6,000, or 1.8 beds per 1,000 population. In addition, there are four institutions for the feeble-minded, with 3,500 beds, and two small homes for epileptics. The operating costs of the mental disease hospitals average \$1.50 per patient daily. Of this amount 70 per cent is paid from public funds and 30 per cent is paid by the patients either directly or through their sick benefit clubs.

At the large mental disease hospital at Nykoeburg, with a capacity for 820 patients, there are 7 physicians, 93 trained nurses, and 80 probationers and attendants. Graduate female nurses occupy all of the higher nursing positions. Graduate nurses and student nurses are used in all wards, being assisted by a few male attendants in the case of violent male patients. Each mental hospital is administered by a superintendent who is not a physician, but he is subject to the decisions of the head physician in all matters regarding treatment and welfare of the patients.

At one of the mental hospitals a plan of family nursing has been in effect for a number of years with results which are said to be entirely satisfactory. Under this plan, selected patients are boarded out at farm homes and are visited twice monthly by a private practitioner in the neighborhood. The placement of the patients is directed by the medical superintendent of a near-by mental hospital.

No mental hygiene activities, comparable to child guidance clinics or mental clinics in this country, are being conducted in Denmark. It is beyond the scope of this paper to discuss the methods of commitment and other legal questions regarding insanity.

## Sick Benefit Clubs

Denmark has a system of voluntary insurance against sickness which includes 60 per cent of the population between the ages of 15 and 60 years. Approximately one and one-third million people have membership in the sick benefit clubs, and when one of the parents is a member, the medical benefits also extend to children under 15. The present system has evolved, during many years, from the voluntary and mutual insurance clubs associated with the old guilds. In 1892, a law was passed which offered Government recognition in return for certain privileges and obligations. The privileges included a subsidy, and rights to hospital treatment at reduced terms. obligations related to supervision of budgets and accounts. effect of the law was to promote a voluntary combination of individual clubs into central unions for counties or districts, to establish minimum cash benefits, and to coordinate the many existing clubs into a national system of voluntary insurance. The laws have been changed in some particulars, in accordance with the expressed wishes of the clubs themselves. In scope a sick benefit club usually is limited to some special locality, less frequently it is connected with a special trade. The conditions governing membership relate to-

(1) Age.—The age limits are from 14 to 40 years at the time of admission.

(2) State of health.—A separate account is kept of each two groups of members, (a) those in perfect health, (b) those suffering from a chronic disease. The State bears the additional cost of the second group.

(3) Income and property requirements are somewhat detailed; but,

in general, all except the more wealthy are eligible.

Benefits.—Membership in a sick benefit club entitles the member to medical and hospital treatment, including mental disease and tuberculosis hospitals; a daily cash benefit for illness varying from 12 cents to \$1.60 for 26 weeks in 12 consecutive months, or 60 weeks in three years; and for assistance to women in childbirth. In addition to the above compulsory services, many clubs provide specialist's attendance, dentistry, medicine, home nursing, convalescent home or health resort treatment, etc. The Government contributes one-fourth toward the expense of the above services, pays annually 80 cents to every club for each member, and if a member continues sick beyond the time limit pays public relief.

The Government subsidies amount to about \$2.20 per member, which, together with the expenditures by the clubs, make a total expenditure per member each year of nearly \$7. This is distributed

as follows:

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| Medical, specialist, and dental service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 45. 4   |
| Hospital and institutional treatment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 13      |
| Medicine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10      |
| Cash benefits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 16. 5   |
| Administration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12      |

The premium per year per member varies somewhat, depending upon the amount of the cash benefit, the extent of the service rendered, etc., averaging in 1921 about \$4.50 per member.

A premium for invalidity insurance is collected also from all members between 18 and 62, varying according to age from \$1.40 to \$2.70; and under the workmen's compensation act employers are required to insure all employees. The annual cost of this amounts to about \$1.50 per worker.

The sick benefit clubs have a public health interest, not only because they have assured to a large part of the population adequate and early medical treatment, which is often the best means of prevention, but because they have done much to free the individual from the economic consequences of disease. Owing to the medical service available through the clubs, infant and child health activities of health departments have not been so necessary as in other countries. The expenditures from public funds, therefore, toward the support of these clubs are looked upon by the Danes as an indirect subsidy to the public health service.

## Social Legislation

In addition to the sick benefit laws, other social legislation should be mentioned, largely because it illustrates how thoroughly the country has organized its social services.

Poor law.—As in most countries, paupers are provided with medical and institutional care and cash benefits. This relief, however, invokes certain disabilities, such as loss of franchise, etc., so that it is utilized only by the "undeserving poor," and in most cases public relief is obtained under other laws without the attending disabilities.

Temporary public assistance is given to the "deserving poor" who are trying to support themselves without applying to the poor law administration.

Old age pensions are paid to impecunious citizens over 65 years of age, amounting to about \$125 per annum per pensioner and involving a total annual public expenditure of about \$18,000,000.

Under the child welfare act, relief for children of widows is provided to the extent of \$30 to \$50 per child annually when the widows' income is below a certain minimum. For illegitimate children and unmarried mothers public care is provided, and the father is required to reimburse three-fifths of the expenses up to the age of 18 when-

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ever possible. A divorced or deserted wife also has the right to relief from public funds.

Invalidity insurance has been mentioned in connection with sick benefit clubs. The funds are secured from premiums paid by insured persons, contributions from employers, and subsidies from the State and municipality. The invalidity pension of \$220 per year is paid when the working capacity of the applicant is reduced two-thirds or more. The reduction in working capacity is calculated rather liberally by a central tribunal after a complete medical examination. In addition, nursing, medical treatment, and prosthetic appliances are provided to lessen the degree of invalidity.

Workmen's compensation.—All persons engaged in any kind of work, whether for salary or wages, come within the scope of the act. Small tradesmen, artisans, and farmers may insure themselves, the government assisting them in paying premiums. Employers must cover their legal risks by insurance in an insurance company. Benefits are paid for accidents and industrial diseases. In the case of death, a lump sum is paid equal to five times the annual earnings of the deceased, not exceeding \$3,000 nor less than \$1,500. For incapacity not fatal, two-thirds of the actual earnings are paid daily, after the lapse of 13 weeks, during which time the sick benefit clubs will usually have paid sick benefits and provided medical treatment. For permanent partial disability a lump sum is paid (the maximum being \$6,000), depending upon the earnings and extent of impairment.

#### Child Welfare

Denmark makes very elaborate provisions for child welfare. In this, as in other phases of social welfare, the primary emphasis seems to be placed upon education, moral welfare, care, and treatment rather than upon preventive measures. Child-welfare activities are supervised by a department in the Ministry of Social Affairs, and are carried out in the various local communities through child-welfare councils. These councils are appointed by the local (parish or municipal) authorities and exercise jurisdiction over all questions pertaining to the moral and, partly, the sanitary phases of child welfare. They also perform the functions of juvenile courts. These councils do not ordinarily have a medical member, a fact which was commented upon adversely by a number of Danish physicians.

The measures taken for child welfare in Denmark may be summarized as follows:

(1) The bringing up of children away from their homes, and assistance to parents in bringing up their children. Nearly 5,000 children are now being cared for away from their homes (1.4 per 1,000 inhabitants). The institutions in which these children are placed include 22 reformatories and industrial schools with a capacity

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are ity for more than 1,000 children, 114 childrens' homes accommodating 2,700 children, 18 homes for infants accommodating 425 children, and 48 detention and observation homes with a capacity for 1,200 children. In addition to the children placed in these institutions it is estimated that one-half of the wards of the child-welfare councils are placed in private families.

(2) In addition to the children who are wards of the child-welfare councils, elaborate provisions are made for the care of children during the day while the mother is at work. There is a total of 216 day industrial schools, recreation homes, public kindergartens, crèches, and day nurseries accommodating more than 9,000 children.

The expenditures by the State for public child welfare amount to more than a million dollars, and by municipalities \$250,000 per year. It is said that the major cost of child welfare, however, is borne by private organizations.

(3) A description will be given elsewhere in this report of the institutions for the crippled, the blind, the deaf, the imbecile, the epileptic, and tuberculous children, which have a total capacity for 3,045 persons.

(4) In addition to the care given to the various classes of children mentioned above, permanent poor relief is given to assist parents in the raising of their children, about 15,000 families receiving this aid.

(5) The birth of every illegitimate child must be reported by the attending physician or midwife to the child-welfare council, which organization exercises intimate supervision over these children. The mortality among illegitimate children was formerly very high, but now approximates that of children born in wedlock. About 8,000 illegitimate children are born each year, representing about 10 per cent of the total births. Child-welfare councils and boards of guardians pay each year approximately \$1,000,000 toward the care of illegitimate children, approximately one-half of which is refunded by the alleged fathers. A number of institutions are operated for the care of unmarried mothers and their children or for the children alone.

(6) Other activities concerning child welfare relate to the enforcement of very comprehensive child-labor laws, prevention of cruelty to children, etc.

Although very extensive measures are carried out for the welfare of children and strict rules exercised concerning the sanitation and medical attendance at all children's institutions, the writer's impressions are that this movement would be more effective if medical direction were provided for many of its phases, if trained publichealth nurses were substituted for untrained social-welfare visitors,

if better coordination existed between the prenatal, infant, and school welfare services, and if more stress were placed upon prevention rather than treatment.

## Child Hygiene

Measures for child hygiene per se are not extensively developed in There is apparently much truth in the statement made by the Danes to the effect that the extensive child-welfare activities and the ample provision for medical service provided through sickbenefit clubs and hospitals obviate the necessity for extensive childhygiene activities, such as are carried out in some other countries. Prenatal clinics, such as exist in the larger centers in the United States. have not been developed in Denmark, with the exception of one such clinic at the State Hospital. In Copenhagen there are eight baby clinics conducted by a church organization with grants from the city and State. About 1,200 infants are under supervision at these clinics. representing more than 10 per cent of the infant population. They are held weekly or biweekly and admit only infants who are breast fed. This restriction is made in order to encourage breast feeding of infants. The mothers are given 1 quart of milk a day for their own use if they attend the clinics regularly.

## School Hygiene

School physicians are not employed at present except in a few of the larger towns. Some of the smaller towns in the past have employed school physicians, but upon inquiry as to why their services were discontinued several school superintendents and district medical officers stated that "they could not make a living." In other words, the opinion prevails that medical service to the public is so complete there is no great need for a public-school physician to examine the children.

In Copenhagen, 30 school physicians are employed on part-time service, and an examination of all children is made shortly after they enter school and usually before graduation. Visits are made by the doctor to the school twice each week, and the teachers send to the physician selected pupils for observation. Whenever defects are found, parents are notified, and if the defect is not corrected, the parent is requested to come to the school for consultation with the physician. Very little "follow up" work is done, it being stated that in practically all instances the parents followed the advice of the school physician without an additional personal appeal by school nurses. The school physicians supervise sanitary arrangements at the schools and are notified when infectious diseases occur.

The most important duty of the eight school nurses in Copenhagen seems to be to assist the doctors in the treatment of scabies and pediculosis and to render first aid. Health education has received much emphasis, and all teachers at secondary schools are required to take a course and pass an examination in school hygiene. The course is given by a special medical lecturer.

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enoies The hygienic arrangements at all schools visited seemed excellent. Much emphasis is placed on the teaching of dietetics and on physical education. Baths are given at the schools every two weeks and school lunches are provided to a greater extent than in this country. These lunches are offered at a very moderate cost and are furnished free to a considerable number of the children.

Two very well equipped dental clinics are in operation in Copenhagen, one in Fredericksberg and 12 in various provincial towns. The two clinics in Copenhagen serve the four lower grades in half the school system and furnish emergency dental treatment to children in the upper grades. Additional clinics are to be added in the near future. Examinations are made of these children each year at the clinics, and 20,000 children are treated annually. Ninety per cent of the children needing dental attention avail themselves of the service of the clinic. The cost of the service for each child treated is \$1.25.

Physical education.—One of the very interesting public health activities in Denmark is the thorough system of physical education. Practically all school buildings are provided with gymnasiums; the teachers of physical education frequently teach other branches, so that there is a high degree of coordination between the mental and physical instruction. At the final examinations in secondary schools grades are given for physical exercises in the same manner as for other subjects.

Physical training is not confined to the schools. All over the country there are gymnastic associations, 831 in number, with about 1,500 teachers and with a membership of 35,000 young men and women. A considerable amount in Government grants is given to train teachers of gymnastics. A very interesting gymnastic high school at Ollerup was visited. The director of this institution has developed a system of gymnastics of international repute. A group of 30 American students and teachers of physical education are taking a post-graduate course at this institution during the current year.

## Care of the Crippled, Blind, and Deaf

Crippled.—Care of the crippled is conducted mainly by private initiative with a State subsidy of \$170,000, annually. This work is centered at the Institute for Crippled Children in Copenhagen, which was founded in 1871 and which is said to be the first of its kind in the world. At this institution a clinic is maintained to

which 2,000 new patients are admitted and at which nearly 10,000 orthopedic consultations are given annually. Hospital beds are available for cases requiring hospitalization. In addition to the orthopedic clinic, there is a school where education comparable to that of other schools is given. Most of the children live at the institutions, and all are trained in some occupation suitable to their physical and mental status. In connection with the institution there is a seaside sanatorium with accommodations for 240 patients.

Blind.—In Denmark there are about 1,500 persons classified as blind. Upon inquiring as to the causes of blindness, it was interesting to learn that smallpox blindness is unknown; that ophthalmianeonatorum has practically disappeared since 1900, when the use of silver nitrate was required for all newborn children with a result so satisfactory that only four cases have developed in the country since 1910; and that xerophthalmia was responsible for the development of 42 cases of blindness during the war. This latter disease appeared in a large number of children, due to the fact that practically all of the butter in the country was exported and skimmed milk and butter substitutes were used extensively.

There are two institutions for the training of blind children, with a combined capacity for about 220 pupils. At these institutions

the children are educated up to the age of 18 or 20.

The city of Copenhagen maintains special schools for children of

weak sight.

Deaf mutes.—Since 1817 there has been compulsory education for all deaf mutes, of whom there are about 1,800 now in Denmark. These children are classified as partially or totally deaf, and the totally deaf are further classified into three groups, depending upon their intelligence. All except the least intelligent are taught lip reading. In all, there are five institutions for the education of deaf mutes, at which the cost is practically gratis.

As a part of the Copenhagen school system there is a school for the hard of hearing. Monthly physical examinations and hearing tests are made of all pupils and daily aural irrigations are given.

### Milk Sanitation

Dairying is the most important single industry in the country and forms the backbone of Danish prosperity. The value of exported butter exceeds \$130,000,000 per annum and the export value of all dairy products reaches a total of nearly \$200,000,000 and constitutes one-third of the value of all exports. Like so many of the industries and activities in Denmark, dairying is organized on a cooperative basis. About 125,000 milk producers (dairy farmers), owning more than 1,391,000 cows, are members of the 900 cooperative dairies,

through which a large part of the dairy products of the country s handled.

In view of the highly developed state of this industry it seemed desirable to study the measures which are in effect to safeguard the sanitary quality of dairy products. Like most other sanitary problems, the control of milk supplies is mainly a function of local (municipal) authorities. The individual municipality is free to decide whether or not any sanitary control is to be exercised, and the nature and extent of this control, subject only to approval of the regulations by the Home Office.

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In addition to municipal regulations, the Ministry of Justice, under the general authority of a pure-food law, has decreed certain regulations applicable to the whole country. These relate not so particularly to sanitary matters as to minimum requirements for the composition of milk, especially percentage of fat, solids, and the like, to prevent adulteration. These regulations define Pasteurization and also "milk for children."

Pasteurization.—The use of Pasteurized milk in Danish cities, as judged by American standards, is not extensive. In Copenhagen, the two largest dairies report that about 40 per cent of their supply is Pasteurized, and in other towns where inquiry was made the proportion of Pasteurized milk was considerably less. The "flash method" of Pasteurization is the only one in use. The regulations of the Ministry of Justice provide that—

Milk or cream may be designated as Pasteurized only in case the milk or cream not later than 24 hours after milking has been heated to at least 80° C. and there after cooled to 12° C. Pasteurized milk or cream must not give reaction to the paraphenylendiamin test (Storch's reaction), and the name of the firm and date of Pasteurization must appear on the container.

In the dairies all milk for butter making and skimmed milk returned from the dairies to the producers is Pasteurized.

"Children's milk."—This corresponds in general to "certified milk" in American cities, with the important difference that its cost is only 2.5 to 3 cents more per liter than ordinary milk. The regulations of the Ministry of Justice require "children's milk" to be from cows free from tuberculosis as shown by an annual tuberculin test and a fortnightly veterinary inspection of the cows, and that it comply with the regulations of the municipality concerned. Special requirements in Copenhagen for "children's milk" include the use of a washable milking suit, cleanliness of the stable, cooling of the milk to 8° C., and a negative reductose test for 5 hours. In Copenhagen, less than 5 per cent of the total milk supply meets the requirements of "children's milk," and there is sale for only 3 per cent under this designation. In the other cities a smaller proportion, and in some cities none, of the milk is classified as children's milk.

Milk control measures by municipalities.—As may be expected, the nature and extent of milk control measures by different municipalities varies greatly. Many of the smaller cities exercise no control, others employ a veterinary inspector or use the sanitary police more or less for this purpose. The milk control regulations in Copenhagen are very complete as regards the examination of the cows by veterinarians, the health of the cows, the cleanliness of the stables, the wearing of washable clothes by the milkers, the absence of dirt in the milk, the reporting and removal of cases of communicable diseases occurring on dairy farms, etc.

The expenses of the enforcement of the regulations as they apply to dairy farms are borne almost entirely by the Copenhagen receivers of the milk, who employ 130 veterinary surgeons (part time) for this purpose. The city employs two veterinary surgeons who supervise milk production and handling, and who are assisted by the sanitary police in taking temperatures of milk being shipped to the city and in collecting samples for examination. There is practically no bacteriological control of milk in Copenhagen or elsewhere in the country. In place of this, however, the temperature, the absence of dirt. and the reductase test are used as criteria of quality. About 12,000 samples are examined in Copenhagen per year. In Denmark, milk is not graded according to quality (except the special "children's milk" described above) by the municipalities, and it is not the usual practice for the city to control, by bacteriological methods, the efficiency of Pasteurization or of methods of cleaning and sterilizing milk bottles, utensils, or milk plant machinery. The sanitary control exercised by the dairy plants themselves is very strict and complete. Milk is bought at the milk plants, not only on the basis of its content of butterfat, but also on the basis of its sanitary quality. The minimum standards vary somewhat, but in general, if the milk is visibly dirty, too warm, or decolorized too quickly by the reductase test, the farmer is paid less than the market price, or if the milk repeatedly is sub-standard, it is rejected entirely. This gives a very direct economic urge to the producer to maintain the quality of his product.

Cases of communicable disease at dairy farms seem to be well reported. The cooperative dairies compensate the farmer for any losses incurred in the restriction of milk sale by reason of the occurrence of contagion, and free hospital treatment is provided so that the incentives to hide cases of human contagion are largely removed.

The sanitary conscience of the Danish people is highly developed, and a high standard of cleanliness was observed at all of the dairy farms and plants visited. It was noted, however, that the facilities for sterilizing milk utensils at some of the farms were inadequate; that the design of some of the milk-plant machinery made its cleaning difficult, and that hand-capping of the bottles is still practiced.

At one "model farm" supplying "children's milk," physical examinations of the employees are made by a physician, but this is not the general practice either for employees at the dairy farms or at milk plants.

Milk-borne epidemics have occurred in Copenhagen and elsewhere, but in the limited time available no complete reports of these could be collected.

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Bovine tuberculosis.—Except for those cows supplying "children's milk," freedom from tuberculosis, as shown by the tuberculin test, is not required. Veterinary surgeons examine the cows periodically (usually monthly) for clinical signs of disease and note carefully the condition of the udder. Such an examination will disclose only advanced tuberculosis and demonstrable udder lesions, a small percentage of the total of infected cows. Since tubercle bacilli may be excreted through an apparently healthy udder, and since milk may be infected by bacilli from the feces of cows with lung tuberculosis, it is obvious that this system by no means excludes bovine tubercle bacilli from the milk. This seems to have an added sanitary significance when the small percentage of Pasteurized and children's milk is considered.

Although some progress has been made in bovine tuberculosis control by the breeding of uninfected herds after the Bang method (which is well known and will not be described here), this disease is still very prevalent and Professor Bang concludes that it is almost as prevalent now as it was 25 years ago. The farmers generally do not seem disposed to undertake the eradication of tuberculosis in their herds, as is shown by the fact that although more than 750,000 cattle were owned by members of dairy associations, less than 48,000 were tested in the whole country in 1922. Of these, 11.9 per cent reacted to the test, and of those tested the first time, 26.1 per cent reacted. The prevalence of the disease is further illustrated by the fact that of 163,000 cattle slaughtered during 1922, tuberculosis lesions were found in 28.85 per cent.

It is interesting to note that all skimmed milk from dairies which is returned to the farms for the feeding of calves and pigs is required to be Pasteurized to prevent the transmission of tuberculosis and other diseases to those animals.

The State pays a partial compensation to owners of cattle which are required to be killed because of udder tuberculosis. Each year only 700 to 800 cows with udder lesions are destroyed.

#### Water Supplies

Public water supplies are in use in the cities and even in some of the very small villages. Copenhagen has a very extensive supply secured from a large number of wells, varying in depth from 50 to

150 feet. The water from these wells is sterile. It is collected from the various batteries of wells and treated by aeration and filtration to remove iron. The per capita consumption of water in Copenhagen is about 36 gallons daily.

## Sewage Disposal

Public sewer systems, likewise, are in use, although none of the towns are completely sewered. In Copenhagen there is one water-closet for every four inhabitants. In the unsewered districts of the towns, and even at the rural homes and schools, the prevailing type of privy is the can type. In the larger cities they are cleaned by a municipal scavenger service, while at the farm homes and in the smaller villages the occupants of the houses care for the disposal of the excreta. The regulations in Copenhagen and other large cities require that the privies be of tight construction, that the seats be provided with lids, and that they be ventilated.

## Meat Inspection

The inspection of meat is under the jurisdiction of the national Department of Agriculture and is supplemented by regulations of the local health committee in most of the towns. The extent to which the local inspection is carried out varies among the different municipalities. All exporting shaughterhouses and all meat for export are subject to strict State control.

#### Discussion

In the foregoing report many details of the public health organization of Denmark have of necessity been omitted. It is hoped, however, that the reader can gain some conception of the policies and procedures which characterize the Danish public health system.

What, in brief, impresses the public health student in Denmark? The complete, elaborate, and expensive provisions which are made for the care of the unfortunate members of society are constantly noticed. The splendidly organized system of curative medicine, under which medical, hospital, dental, nursing, sanatorium, asylum, in fact every type of care is furnished to all in need thereof free, or at a cost within the ability of all to pay, forms the backbone of the public health system. Much consideration is given to child welfare, to the crippled, the blind, the deaf, the scrofulous, the illegitimate, the orphan, to the aged, to the insane, and even to the criminal. The sickness, unemployment, accident, old age, and burial insurance systems are most complete. The high standards of education and the absence of illiteracy, the even distribution of wealth, and the absence of extreme poverty and slums, are striking.

There is a uniformly high standard of medical, dental, nursing, pharmaceutical, and midwife education. The physicians are held in high public esteem; there is an absence of quackery, and the economic and social position of the physicians is comparatively good. The physical vigor of the people is noticeable and undoubtedly is related to their passion for physical training as well as to the racial stock and their economic and social progress. A cooperative spirit everywhere is manifest; and this is so basically a part of their nature that it is reflected not only in their whole social system, but even in the games which the children play. Along with this spirit of mutual self help, individual initiative and responsibility have been developed with the result that their highly developed and complicated social order seems to have been evolved by and for the people themselves and not to have been imposed upon the country by some central authority or by some one class of the people.

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All of these things impress the visitor to Denmark. Along with these impressions, there constantly arises the question of how any nation with no natural resources except a fertile soil and a good racial stock can continue to secure the money with which to support so lavishly their many social welfare services. This is a question which intrigued the interest of all the delegates and is one upon which even the best political economists disagree. In these circumstances it is perhaps out of place for a mere sanitarian to hazard an opinion.

It is true that taxes are high; a physician with a moderate income pays 25 per cent of his income, and a charwoman 12 per cent of her income in taxes, for example, and it is practically impossible now to accumulate a fortune in Denmark. On the other hand, a fortune in Denmark is not necessary in order for an individual to enjoy the "blessings of civilization." For the taxes which are paid, very considerable and tangible services are rendered by the government (state and local). The National Government expends each year one-half of its income for what is termed public health (more properly public welfare), and expenditures by local governments exceed those of the state, with the result that, each year, public expenditures for this purpose average \$13 for every inhabitant.

It is true that economic conditions as influenced by world trade, etc., have necessitated a reduction in taxes, and a reduction of 10 per cent in government expenditures has been ordered. It is believed that these reductions will be effected without curtailing, to a disastrous extent, the necessary expenditures for public welfare, and that Denmark will not dispense with the admirable services which have done so much to promote the well being of her citizens.

Each country evolves a social system best suited to its particular needs, and although the public health system of Denmark as a whole could not be applied to the United States, for reasons which are too

numerous and obvious to recount here, it has a number of features which could be emulated to advantage.

Although the reader probably will have made comparisons between the Danish and American public health organizations, it may not be inappropriate to mention briefly by way of recapitulation some of the outstanding features of the two systems.

The adequate provision and extensive use of the facilities for treatment of disease, and the voluntary insurance against the economic consequences of disease for the great mass of people of small means, are the most prominent features of the Danish public health movement and serve to emphasize the fact that this is an unsolved and important problem in the United States.

The uniformly high standards of medical education which have been in effect in Denmark for many years have produced a high quality of medical service. This should be assured in the future in this country to a great extent by the efforts made during recent years to improve medical education. There still remains in the United States the problem of the pseudo-medical practitioner and the quack. The Danish public apparently recognizes the value of, and necessity for, scientific medical service to a greater extent than is the case in this country.

The principle of public responsibility for the prompt and adequate treatment of infectious diseases, as a means of preventing their spread, is universally accepted in Denmark. This principle does not find general application in the United States.

The close harmony and cooperation which has always existed between the practicing Danish physicians and public health officers has been of advantage to the profession and to the public alike.

The efficiency noted in all types of public service, while not ideal in Denmark, impresses one as being much above the average in this country. In public health and medical work particularly, the apparent absence of "politics" in determining appointments and the high quality of service were most impressive.

The application of mental hygiene through mental and child

guidance clinics has not been developed in Denmark.

Sanitary engineering as a profession is better developed in the United States. There are no engineers attached to the National Board of Health, and those employed by the larger cities are concerned primarily with housing. The design and construction of water supply and sewerage systems are left entirely to the municipal engineers.

Insufficient importance is attached to epidemiology in Denmark. Sharp outbreaks of disease are investigated, but epidemiological studies of disease occurrence are not made to the same extent as in the

best health departments here.

Uniform rules and regulations are not laid down for the control of contagion. Since, however, the individual doctor assumes and discharges properly so large a share of responsibility in connection with each case of contagion, this may be of no great importance. Schick testing and active immunization against diphtheria are not extensively used.

Part-time as contrasted with full-time service in public health work prevails, and although efforts are being made to bring about a change, there is some divergence of opinion whether full-time or part-time officials will best suit Danish requirements.

Public health nurses are used to a slight extent as compared with this country, although bedside nursing-care for the sick is being widely used.

The medical profession of Denmark has not especially interested itself in directing certain phases of the public welfare movement, particularly child welfare, with the result that this work has suffered in efficiency by lack of medical guidance. The same observation may be made concerning certain phases of public health and welfare in many communities in the United States.

In conclusion, it is desired to state that this description of the public health organization of Denmark would not be complete unless mention were made of the hospitable and cordial welcome which was everywhere accorded the delegates to the interchange, by the physicians, medical officers, other public officials, and the public generally.

## THE COST OF A SMALLPOX EPIDEMIC

The cost to a community, not in suffering, disfigurement, and death, but in taxpayers' money, of an epidemic of smallpox is not often used as an argument for vaccination; and it would not seem necessary to offer it, for a desire for individual and community protection from a dangerous and loathsome disease would certainly appear to be sufficient reason for the average intelligent person to seek the beneficent protection of this simple expedient. With the vast amount of indisputable evidence that vaccination protects against smallpox, the desire for personal security and community and patriotic public health ideals should be sufficiently stimulating to bring about universal voluntary vaccination. This millenium has not yet arrived, however; and, in the meantime, with memories of a serious outbreak dimmed by the passing years, and lulled into a false sense of security, people are with difficulty aroused to the point of being vaccinated and revaccinated. While it is true that only the unvaccinated need worry about the risk of infection, the vaccinated are called upon to help bear the cost of a smallpox out-

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break, as is evidenced by the following note on a smallpox epidemic in England, published in *The Medical Officer* for May 7, 1927:

The smallpox outbreak in Monmouthshire has so far cost the ratepayers £10,000 in capital expenditure and equipment, while the maintenance of 200 beds for six months will mean another £13,000. These figures are given by Dr. D. Rocyn-Jones, the county medical officer, who states that of the 773 cases reported since the commencement of the outbreak 173 are still in hospital. Doctor Rocyn-Jones expresses his great regret that "the position has not been rendered any easier by the opposition of an ill-informed and foolish section of the public, aided and abetted by the poisonous literature assiduously distributed through the post by spurious medical experts whose contribution to this epidemic will mean increased suffering and disfigurement and the expenditure of thousands of pounds unnecessarily."

Statistics reveal that 90 per cent of the victims were unvaccinated.

Calling attention to the fact that the United States is achieving the unenviable reputation of competing with other unvaccinated countries in the number of cases of smallpox reported annually, Dr. Charles V. Chapin, superintendent of health of Providence, R. I., recently had the following to say about vaccination:

I always thought that the best proof of the value of vaccination is given by an early experiment in Massachusetts. In 1802, 19 boys were vaccinated. Three months later 12 of the boys were inoculated with smallpox matter. They remained well, not because the virus was poor, for the same matter caused regular smallpox in two other boys who had not been vaccinated. To test further the protective power of vaccination, the 19 boys were again inoculated with smallpox (12 for the second time) and remained free from the disease. Why should one seek further proof of the value of vaccination?

Smallpox is a very contagious disease, almost as much so as measles. Most unprotected persons closely exposed to it contract it. During the last 40 years I have cared for many cases of smallpox. I must have seen nearly 200 doctors, nurses, ward maids, and others brought in contact with these patients. Only one attendant got smallpox. I, of course, intended every one to be vaccinated, but one nurse got by and she contracted smallpox after one short exposure. At the time I found one of my early cases of smallpox, I had a 2-months-old baby at home. He was promptly vaccinated. Our "pest house" was beautifully located on the shores of the bay, and every afternoon when I drove out to see the patients I took my wife and baby with me, knowing I could do so without danger to them. Health officers and doctors who see smallpox believe in vaccination. They know it protects.

Many persons are afraid of vaccination. They say it is dangerous. Doctor Leonard, of our board of health, has vaccinated almost exactly 150,000 persons in Providence. Not one has died or lost a limb or been inoculated with any other disease. Of course, there are the three-day fever and enlarged glands in some cases. A small percentage also have had sore arms, usually because the vesicle had been broken and they had neglected to show it to the doctor, though some have had trouble from wearing a shield, against which I have always advised. Vaccination, so far as serious danger is concerned, is safer than picking blueberries or eating a saucer of ice cream. I have known of blood poisoning to result from a briar scratch and I have seen diphtheria result from infected ice cream. If health officers were not sure that vaccination is safe, we would not be fools enough to vaccinate ourselves and families every two or three years.

<sup>1</sup> Quoted from the Ohio Health News for Apr. 15, 1927.

We hear a great deal about patriotism, usually of the military sort, but there are other ways of serving one's country than pouring out one's blood and treasure. One is to make your community a healthier place to live in. Will you continue unvaccinated and so help this country to vie with India, Mexico, and Russia for the tail-end place in the race for freedom from smallpox, or will you be vaccinated to-day and help exterminate this disease and make it impossible for your health officer ever to be obligated to take you to the pest house?

# AUTOMOBILE FATALITIES, APRIL 26, 1925, TO APRIL 23, 1927

The Department of Commerce announces that during the four weeks ended April 23, 1927, automobile accidents were responsible for 491 deaths in 78 large cities of the United States. As compared with 423 deaths during the four weeks ending April 24, 1926. Most of these deaths were the result of accidents which occurred within the corporate limits of the cities, although some accidents occurred outside of the city limits.

For comparison, the number of deaths due to automobile accidents within city limits is desirable. Such figures are available for the same four-week periods for 58 cities, the four-week figure in 1927 being 305 as contrasted with 287 for the corresponding four weeks in 1926.

Considering, by four-week periods since May, 1925, the total number of deaths from automobile accidents for 78 cities, regardless of place of accident, the lowest total (347) appears for the four-week period ended March 27, 1926, and the highest (676) for the four-week period ended November 6, 1926. The numbers in the 26 periods of four weeks were as follows:

| 1927:    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1926—Continued. |                                         |       |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------|-------|
| Apr. 23  | 491                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Apr. 24         |                                         | . 423 |
| Mar. 26  | 144                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Mar. 27         |                                         | _ 347 |
| Feb. 26  | 443                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Feb. 27         |                                         | _ 375 |
| Jan. 29  | 473                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Jan. 30         |                                         | . 431 |
| Jan. 1   | 521                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Jan. 2          |                                         | _ 551 |
| 1926:    | THE RESERVE OF THE PARTY OF THE | 1925:           |                                         |       |
| Dec 4    | 634                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Dec. 5          |                                         | . 625 |
| Nov. 6   | 678                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nov. 7          |                                         | . 612 |
| Oct. 9   | 656                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Oct. 10         |                                         | . 529 |
| Sept. 11 | 560                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sept. 12        | *************************************** | . 521 |
| Aug. 14  | 497                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Aug. 15         |                                         | _ 467 |
| July 17  | 484                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | July 18         |                                         | 493   |
| June 19  | 549                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | June 20         |                                         | . 493 |
| May 22   | 486                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | May 23          |                                         | 423   |

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For the 52-week periods ended April 23, 1927, and April 24, 1926, the totals for the 78 cities were, respectively, 6,925 and 6,289, indicating a recent rate of 21.8 per 100,000 population as against an earlier rate of 20.1, or an increase of 8 per cent in the rate in a single year.

Eight cities reported no automobile fatalities for the last four weeks, while 11 cities reported no automobile fatalities for the corresponding period of 1926.

# DEATH RATES IN A GROUP OF INSURED PERSONS

Rates for Principal Causes of Death for March and First Quarter of 1927

The accompanying tables are taken from the Statistical Bulletin for April, 1927, published by the Metropolitan Life Insurance Co., and present the mortality experience of the industrial insurance department of the company for March, 1927, and for the first quarters of 1927, 1926, and 1925. The rates for 1927 are based on the records of approximately 18,000,000 insured persons of the industrial populations of the United States and Canada.

The death rate in this group of persons for March, 1927 (10.3 per 1,000), not only continued the improvement over last year shown in January and February, but, it is stated, is the lowest rate for March ever recorded by the company. As compared with March a year ago, measles and whooping cough show a very marked improvement; mortality from influenza dropped 58 per cent, and that from pneumonia 39 per cent; and all three of the principal "degenerative diseases"—cerebral hemorrhage, organic heart disease, and chronic nephritis—show large declines in mortality. Slight decreases were recorded for tuberculosis, cancer, diabetes, and diarrheal conditions.

The mortality from diphtheria was considerably higher in March of this year than it was for the same month last year, as was the case in both January and February; but the Bulletin states that the last two weeks in March and the first week in April recorded a decline in the death rate for this cause, and the excess cumulative mortality over last year is not now as high as it was earlier in 1927.

Death rates (annual basis) for principal causes per 100,000 lives exposed, March and February, 1927, and March, 1928

[Industrial department, Metropolitan Life Insurance Co.]

|                                                                                                                                                                                                                                                                                                                                                            | Rate per 100,000 lives exposed 1                                                                                     |                                                                                                                                                    |                                                                                                                                              |                                                                                                                           |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--|
| Cause of death                                                                                                                                                                                                                                                                                                                                             |                                                                                                                      | February,<br>1927                                                                                                                                  | March, 1926                                                                                                                                  | Year<br>1926 2                                                                                                            |  |
| Total, all causes                                                                                                                                                                                                                                                                                                                                          | 1, 028. 5                                                                                                            | 956. 6                                                                                                                                             | 1, 228. 2                                                                                                                                    | 942.7                                                                                                                     |  |
| Typhoid fever Measles Scarlet fever Whooping cough Diphtheria Influenza Tuberculosis (all forms) Tuberculosis of respiratory system Cancer Diabetes mellitus Cerebral hemorrhage Organic diseases of heart Pneumonia (all forms) Other respiratory diseases Diarrhea and enteritis Bright's disease (chronic nephritis) Puerperal state Suicides Homicides | 3.0<br>7.9<br>4.9<br>8.3<br>11.3<br>32.3<br>114.1<br>100.3<br>77.2<br>19.2<br>58.9<br>149.4<br>119.9<br>16.3<br>79.6 | 3. 1<br>5. 5<br>5. 2<br>5. 3<br>11. 3<br>30. 0<br>99. 7<br>88. 5<br>75. 5<br>18. 9<br>57. 1<br>136. 7<br>118. 6<br>14. 3<br>80. 2<br>14. 9<br>7. 8 | 2. 4<br>21. 8<br>4. 8<br>13. 8<br>9. 4<br>77. 2<br>116. 9<br>101. 9<br>78. 2<br>21. 0<br>69. 4<br>176. 8<br>196. 8<br>19. 1<br>17. 7<br>7. 1 | 4.2<br>3.4<br>9.6<br>9.7<br>31.0<br>98.7<br>86.5<br>73.5<br>16.7<br>55.5<br>133.9<br>97.9<br>13.1<br>29.8<br>73.3<br>75.6 |  |
| Other external causes (excluding suicides and homicides) Traumatism by automobiles                                                                                                                                                                                                                                                                         | 85. 9<br>12. 3<br>215. 0                                                                                             | 54.0<br>11.5<br>193.5                                                                                                                              | 6. 6<br>56. 5<br>9. 7<br>221. 5                                                                                                              | 62.<br>16.<br>190.                                                                                                        |  |

All figures include infants insured under 1 year of age.
 Based on provisional estimate of lives exposed to risk in 1926.

### FIRST QUARTER OF 1927

On the basis of mortality experience, the health record of this large group of persons (comprising more than one-seventh of the total population and more than one-fourth of the urban population of the two countries) is stated to have been better during the first quarter of 1927 than during the corresponding quarter of any preceding year. The death rate for the quarter was 9.7 per 1,000, a figure equaled only in 1921, when infant lives under 1 year of age were not insured by the company. If the comparative health conditions in these industrial populations are representative of comparative conditions in the general population, it is predicted that later reports will show an exceptionally favorable health record in both the United States and Canada during the first quarter of 1927.

The following table shows the items that have been chiefly instrumental in producing this pleasing record:

Death rates (annual basis) for principal causes per 100,000 persons exposed for first quarters of 1927, 1926, and 1925, by white and colored policyholders

[Industrial department, Metropolitan Life Insurance Co.]

| Death rates per 100,000 persons exposed                 |                            |                            |                            |                            |                            |                            |
|---------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Cause of death                                          | White                      |                            |                            | Colored                    |                            |                            |
| Cause of deata                                          | January-<br>March,<br>1927 | January-<br>March,<br>1926 | January-<br>March,<br>1925 | January-<br>March,<br>1927 | January-<br>March,<br>1926 | January-<br>March,<br>1925 |
| All causes of death                                     | 885. 9                     | 987.4                      | 928.6                      | 1, 549. 8                  | 1, 675.0                   | 1, 626. 1                  |
| Typhoid fever                                           | 2.3                        | 2.7                        | 2.9                        | 6.5                        | 5.4                        | 5.6                        |
| Measles                                                 | 6.5                        | 16, 6                      | 3.0                        | 2.5                        | 9.7                        | 1.3                        |
| Scarlet fever                                           | 4.8                        | 5. 1                       | 6.0                        | 1.6                        | 1.3                        | . 8                        |
| Whooping cough                                          | 6.7                        | 9.7                        | 6.3                        | 9.0                        | 10.5                       | 10.9                       |
| Diphtheria                                              | 12.6                       | 10.9                       | 14.4                       | 8.1                        | 5,6                        | 8, 8                       |
| Influenza                                               |                            | 43.5                       | 33. 1                      | 60.5                       | 92.1                       | 76. 8                      |
| Meningococcus meningitis                                | 1.0                        | 7                          | . 0                        | 1.3                        | .4                         | 1.0                        |
| Tuberculosis (all forms)                                | 80.8                       | 85.9                       | 90, 5                      | 217.3                      | 231.0                      | 230. 8                     |
| Tuberculosis of respiratory system                      | 70.9                       | 76.2                       | 79.7                       | 191.8                      | 202.4                      | 206. 2                     |
| Tuberculosis of the meninges, etc.                      | 4.8                        | 4.2                        | 5.0                        | 6.3                        | 9.2                        | 7. 3                       |
| Other forms of tuberculosis                             | 5.2                        | 5.5                        | 5.7                        | 19.2                       | 19.5                       | 17.3                       |
| Cancer                                                  | 76.3                       | .74.1                      | 72.5                       | 66.8                       | 67. 6                      | 70. 6                      |
| Diabetes mellitus                                       | 18.1                       | 19.4                       | 18.2                       | 20.5                       | 15. 7                      | 19. 2                      |
| Alcoholism                                              |                            | 3.8                        | 3.0                        | 4.3                        | 5.2                        | 4.0                        |
| Cerebral hemorrhage; apoplexy                           | 52.7                       | 58.7                       | 50.5                       | 104.3                      | 108. 6                     | 98. 8                      |
| Organic diseases of the heart                           | 136.9                      | 149. 1                     | 135.9                      | 206.3                      | 217.0                      | 235, 4                     |
| Total respiratory diseases                              | 117.4                      | 154. 7                     | 136.5                      | 238, 1                     | 309. 7                     | 265, 5                     |
| Bronchitis.                                             | 5.3                        | 6.7                        | 7.1                        | 10.6                       | 9.9                        | 10. 9                      |
| Broncho-pneumonia                                       | 46.2                       | 61.3                       | 52.0                       | 76. 5                      | 109.2                      | 79. 8                      |
| Pneumonia (lobar and undefined)                         | 57.7                       | 78.2                       | 68.3                       | 140. 1                     | 176.6                      | 157. 1                     |
| Other diseases of respiratory system                    | 8.2                        | 8.5                        | 9.1                        | 11.0                       | 3.0                        | 17.8                       |
| Diarrhea and enteritis                                  | 15.1                       | 16.9                       | 17.6                       | 18.6                       | 17.8                       | 23. 6                      |
| Under 2 years                                           | 12.0                       | 14.5                       | 14.7                       | 10. 2                      | 12.9                       | 16.5                       |
| 2 years and over                                        | 3.1                        | 2.4                        | 2.9                        | 5.4                        | 4.9                        | 7.1                        |
| Acute nephritis                                         |                            | 4.9                        | 5.1                        | 14.9                       | 15.7                       | 16. 1                      |
| Chronic nephritis (Bright's disease)                    | 68.8                       | 76.0                       | 70.7                       | 137. 9                     | 139. 1                     | 131. 4                     |
| Total nuerneral state                                   | 14.4                       | 15.5                       | 17. 2                      | 24.4                       | 24.2                       | 26. 5                      |
| Puerperal septicemia. Puerperal albuminuria and convul- | 5. 6                       | 6.1                        | 6.7                        | 12.0                       | 10. 3                      | 11.9                       |
| sions                                                   | 2.9                        | 3.6                        | 3.5                        | 5.2                        | 6.7                        | 4.4                        |
| Other diseases of nuerneral state                       | 5.9                        | 5,8                        | 7.0                        | 7.2                        | 7.1                        | 10. 2                      |
| Total external causes                                   | 66. 7                      | 64.2                       | 66.7                       | 117.4                      | 112.9                      | 163, 6                     |
| Suicides                                                | 8.5                        | 7.4                        | 7.5                        | 7.7                        | 4.3                        | 4.2                        |
| Homicides                                               | 3.0                        | 2.8                        | 3.3                        | 36.5                       | 32.2                       | 31.8                       |
| Accidental and unspecified violence                     | 55.2                       | 54.1                       | 55. 8                      | 73.3                       | 76.4                       | 67. 7                      |
| Accidental drowning                                     | 2.6                        | 2.6                        | 1.6                        | 3.2                        | 1.9                        | 2.1                        |
| Automobile accidents                                    | 12.8                       | 12.2                       | 11.9                       | 14.4                       | 11.0                       | 9.0                        |
| All other and ill-defined causes of death               | 171.5                      | 175.0                      | 171.9                      | 291. 5                     | 285.3                      | 298. 5                     |

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# PUBLIC HEALTH ENGINEERING ABSTRACTS

Camps. Report of Bureau of Sanitary Engineering, Maryland State Depart-

ment of Health, 1926, 19 pages. (Abstract by I. W. Mendelsohn.)

The State board of health issued an order during the year requiring a permit for each summer camp. An engineer was assigned to work with deputy State health officers in investigating sanitary conditions of camps. There were 109 inspections during the year. As a result of this work the following practice is recommended: (1) The insertion of a notice in the daily papers in February and March to the effect that any camp, summer hotel, summer boarding house, picnic grounds, etc., may not operate during 1927 without a permit; (2) inspections and sampling during spring and summer; (3) establishment of reasonable limit of time for improvements; (4) follow-up inspections, with refusal or granting of permit as conditions would warrant; (5) placarding the State road camps, stating that the place has been investigated by the State department of health and approved. If studies showed them unsatisfactory, the proper authorities should be requested to improve them before receiving the health department's approval.

Summer Camps in New Jersey. C. K. Blanchard. Public Health News, New Jersey State Department of Health, vol. 12, No. 5, April, 1927, pp. 108-113.

(Abstract by E. C. Sullivan.)

This article, which is a paper read before the New Jersey Sanitary Association, gives a simple classification of summer camps, exclusive of labor and construction camps, as (1) summer camps of single families or small groups of persons; (2) camps maintained by organizations for boys, girls, or adults; (3) camps maintained for the use of automobile tourists.

The writer believes that camps in the first class are a more serious menace to public health than those of other groups, but that their sanitation is clearly a local problem. Camps of the third class are not so important in New Jersey as in many States, owing to the short period of time necessary to cross the State. This relatively short travel period reduces the demand for overnight camps.

Camps of the second class are most important. While the water supplies are usually carefully chosen and protected, a good food supply is provided, and the use of chemical toilets or safe, fly-tight privies is increasing, nevertheless, there are a number of improvements necessary in the larger of these camps before their equipment or protection can be regarded as entirely sanitary. The writer discusses various stages of the problem and suggests as a matter of discussion the plan for their control, which basically would require the licensing of such camps either by the State department of health or by the local city or town. The issuance of such licenses would be dependent upon compliance with the requirements which would be specified for their adequate sanitation. To put such a system of licensing into effect would require additional provisions by law and in the State sanitary code covering the operation and maintenance of such camps.

The Rodents of Lagos and Their Ectoparasites with Reference to Plague. Andrew Connal, M. D. Annals of Tropical Medicine and Parasitology, vol. 20, No. 4, December 17, 1926, pp. 341-352. (Abstract by R. E. Tarbett.)

This article has to do with the rat campaign and a study of fleas made following an epidemic of bubonic plague in Lagos, Southern Nigeria, British West Africa, and vicinity, in 1924.

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Various methods of trapping and poisoning were employed, but the greater number of rodents were collected in traps of the break-back type, there being very little success with the use of cage traps. The killing of the rodents in the traps undoubtedly affected the flea collection to a considerable extent. The rodents caught were Rattus rattus, Rattus norvegicus, Mus musculus, the shrew, the striped field rat, and the pouched rat. All rodents were examined, a total of

167,194 being caught. Plague was found in the first four named. Of the rodents, the musculus predominated, with the Rattus rattus second. Very few of the striped field rat or pouched rat were found. The chart shows the relationship between the percentage of plague rodents and the number of plague cases. The tables are given showing the monthly catch, type of rodent, and the number of rodents infected for each of the five places where trapping was carried on. One thousand five hundred and twenty-nine fleas were collected from the rats and examined. Five species were found; X. cheopis predominated. Tables show the number and species of the fleas collected.

Multiplication of B. Coli in Stored Shellfish. John E. Bacon, Chief, Bureau of Chemistry. Public Health News, New Jersey State Department of Health, vol. 12, Nos. 3, 4, February-March, 1927, pp. 87, 88. (Abstract by E. C. Sullivan.)

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This article is concerned with an experiment conducted by the New Jersey State Department of Health with respect to the tendency of bacteria of the B. coli group to multiply in shell stock after removal from the natural waters, provided that the shellfish are kept alive and in a thriving condition. The report of the Committee on Sanitary Control of the Shellfish Industry of the United States has stated that from the evidence available the bacteria of the B. coli group do not tend to multiply in shell stock after removal from the water so long as the shellfish are kept alive and in a thriving condition, whereas in the instance of an experiment by Calista Eliot, entitled "Observations on the colonaerogenes group from the oysters," published in the American Journal of Hygiene, November, 1926, it is reported that the B. coli group in stored shellfish increased from 4 to 500,000 in 14 days, no statement being made as to the age of the oysters at the beginning of the experiment. Four hundred oysters were accordingly collected by the New Jersey State Department of Health from a New Jersey shellfish area and kept at a temperature of 21° to 24° C. for periods of 1 to 8 days, four samples from the oysters being examined each day by the regular standard methods.

The result of this test by the New Jersey State Health Department showed "an appreciable increase in scores and total count of stored oysters and generally confirmed the findings of Eliot. As the purpose of the bacteriological scoring of market oysters is to obtain an idea of the probable degree of pollution of the waters in which the oysters are grown, it is apparent that such examinations, unless carried out upon fresh stock, are misleading."

It is the intention of the New Jersey State Department of Health to incorporate in the rules and regulations governing the handling of shellfish in that State a section requiring all retail dealers of shellfish to stamp upon all shipping tags the date of receipt of shipments.

Importance of Heat in Preparing Foods. W. W. Scofield, Chief, Bureau of Food and Drugs. Public Health News, New Jersey State Department of Health vol. 12, Nos. 3, 4, February-March, 1927, pp. 89, 90. (Abstract by E. C. Sullivan.)

The author states that it is an interesting fact that almost without exception in instances where outbreaks of typhoid fever, scarlet fever, diphtheria, septic sore throat, diarrhea, and enteritis have been traced to foods, they have been transmitted by foods which had not been properly heated. Although very considerable advances have been made in the manner in which foodstuffs are prepared for sale and distribution, outbreaks of communicable disease transmitted through foodstuffs continue to occur. Moreover, the application of the proper degrees of heat to these foods at the proper time will prevent the transmission of disease by them.

Mention is made of the efficacy of Pasteurization of milk and other dairy products in destroying disease-producing organisms, and in preventing the transmission of disease by these foods unless the products are contaminated after Pasteurization. The author makes mention of the outbreaks of communicable disease which have been caused at public gatherings through the serving of large numbers of people with cold foods prepared a considerable time in advance of the time of serving. Consequently, there is always the danger of mass infection with disease germs of foods thus prepared if any of the handlers are carriers or are ill with disease. Food for public gatherings is customarily cooked in advance and the cooked foods are handled by individuals. Generally, a moist mass of food is set aside until the time of serving; and if the refrigerator or other place of storage is not maintained at a low temperature, the bacteria, if infected, will develop in great numbers.

The danger of eating spoiled canned goods is pointed out, and it is recommended that people should inspect all canned foods to see that the exterior appearance of the cans is normal and that the ends of the cans do not bulge. Mention is made of the transmission of disease by raw or uncooked meat and shellfish.

Pennsylvania Extends Milk Control in Rural Communities. Charles H. Miner. The Nation's Health, vol. 8, No. 3, March, 1926, pp. 156-158. (Abstract by H. N. Old.)

The author of this paper describes the problem of Pennsylvania's rural population of over 3,000,000 persons, the majority of whom were practically without any sort of milk sanitation measures prior to 1923. On April 4 of that year the advisory board of the department of health approved a regulation which forms the basis for milk control throughout the State.

The progress being made in the matter of testing of dairy herds for tuberculosis is described and the fact brought out that approximately \$2,500,000 (including \$400,000 from the Federal Department of Agriculture) were provided for indemnity purposes covering the two-year period beginning June 1, 1925, more than six times the amount provided by any previous legislature.

While the State department of health has endeavored to avoid any centralization of milk control by the encouragement of local supervision wherever the facilities may be available, the department has materially assisted the local communities in many ways. Adoption of uniform milk ordinances, usually providing for three grades of milk—certified, grade "A" raw, and Pasteurized—has been urged and accomplished in many instances. This has required much missionary work by which the consumers have been aroused to demand protection and the producers and distributers convinced that their own best interests are served by such supervision.

A six weeks' course in milk sanitation is given at one of the universities annually for instruction of health officers and others who desire to qualify for the position of local milk inspectors. A laboratory housed in a motor truck goes about the State visiting milk-treatment plants in cooperation with the local inspector. This laboratory is equipped for the making of Babcock and lactometer determinations, methylene blue reduction tests, sediment and temperature observations, and direct microscopic counts. It is said that the small milk plant operator and the local board of health inspectors have found this traveling laboratory most useful. Requests for this service have already indicated the need for an additional unit.

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The Association of Pennsylvania Dairy and Milk Inspectors has been formed, with two-day sessions held annually to discuss the various problems encountered in the field.

It is stated that many distributors purchase apparatus entirely unsuited to their needs. The trained inspectors are called upon for recommendations; and their inspections do not consist merely of recording conditions, but frequently necessitate several days of actual operation of the plant by the inspector in order that he may leave it operating at maximum efficiency and that the operator may be convinced that real and practical assistance has been rendered. During the past 18 months, 250 Pasteurizing plants have been examined by the State.

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The milk-control program as carried out was planned and adopted only after exhaustive survey of the entire State was conducted covering a period of four years. The success of the program and the progress being made is said to be with a realization that "the establishment of milk control in a city or State means hard work over a long period. It is a continuous educational program."

Conservation of the Waters of the State by the State Department of Health. N. P. Croft, Chief, Bureau of Engineering. *Public Health News*, New Jersey State Department of Health, vol. 12, Nos. 3, 4, February-March, 1927, pp. 74-86. (Abstract by E. C. Sullivan.)

This paper, delivered at the short course for sewage-plant operators, Rutgers University, New Brunswick, N. J., on January 27, 1927, outlines the diversity of opinion in regard to the conservation of waters of New Jersey and states that a central authority has been developed in the State department of health for determining, with equity to all concerned, the amount of work that shall be done by the receiving waters and by the devices for the treatment of domestic sewage and of industrial wastes.

In the paper are traced the agencies in New Jersey to which since 1887 the matter of the control of sewage disposal has been delegated, being eventually lodged in the State department of health. Mention is made that the State department of health has no jurisdiction over the Passaic Valley sewerage district, but that the abatement or nonabatement of pollution by the Passaic Valley sewerage commission is one of the controlling factors in the policy of the State department of health for the conservation of the upper Passaic River. The author points out the effect of sewage pollution on fish life and invites attention to the cost involved in trade waste disposal. He calls attention to the fact that stream pollution is not confined to local boundaries and that the municipalities are always loath to spend public funds for the benefit of neighboring municipalities.

It is stated that the New Jersey State Department of Health has a well-defined policy with respect to sewage pollution and that it is progressively moving for the securing and holding of clean streams in spite of the retardation occasioned by the nonaction of legal authorities.

A résumé is given of the New Jersey laws which give the State health department jurisdiction relating to water supplies and to the discharge of polluting material into streams. By virtue of authority contained therein, there has been maintained a general supervision and inspection of sewage-treatment plants installed throughout the State and there are rules and regulations in effect for the submission of plans and other data relating to sewage products.

Since 1918 the State laws have required the licensing of sewage plant operators. The operators must understand the principles of sewage treatment, and under the latest rules and regulations adopted in 1926 the classification of plants is divided into two main groups: Primary treatment and primary-secondary treatment. Each of these groups is subdivided into three classes, or divisions, depending upon the location of the plant to be operated, the size of installation, and the usage of the receiving waters.

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Separate Digestion Tanks and Sand Filters for Wheaton Sewage. Anon. Engineering News-Record, vol. 98, No. 10, March 10, 1927, p. 409. (Abstract by Arthur P. Miller.)

At Wheaton, Ill., sewage effluent from the treatment plant flows through fine suburban estates, and therefore a high degree of treatment had to be provided. This is effected by supplementing tank treatment with intermittent sand filtration. The plant is designed to care for the estimated population of 1935–1940. For operation on the separate sludge digestion system, there are two settling tanks and two digestion tanks.

The settling tanks are square, with nearly flat bottoms and conical sumps, and solids are collected by Dorr clarifiers. Sludge removal may be continuous or intermittent. Surplus water and water of liquefaction can be removed from the digestion tanks and returned to the settling tanks, and liquid between the scum and the sludge may be piped back to the pump suction and passed through both tanks again.

Chemical Treatment of Trade Waste. Part I: Dye Waste in General. Foster D. Snell, American Dyestuff Reporter, vol. 16, No. 1, January 24, 1927, pp. 54-56.

(Abstract by Emery J. Theriault.)

The literature pertaining to the disposal of dye wastes is briefly reviewed, "Problems relating to purification of dye-works waste may be sharply divided into those in which all of the waste must be treated and those in which a limited amount of waste may be discharged through community sewers. \* \* \* The latter case is much simpler and cheaper, because the worst of the discharge may be 'scalped' and the clearest part treated by chemical means."

In the order of their importance, the four practical methods of purifying dye wastes are coagulation, oxidation or reduction, decolorization by carbon, and evaporation. "A waste would be treated by the latter two methods only under the most extreme conditions." Copperas is the cheapest coagulant available in the average case.

"Barbour (1909: Eng. News, 62-99) has proposed a standard of not over 300 p. p. m. of total solids, 200 p. p. m. fat, no abnormal acidity or alkalinity, and removal of pronounced antiseptic properties. In many cases this standard of total solids works an undue hardship. The others are general practice.

\* \* While there is nothing in the color of waste necessarily harmful it is usually the principal point considered by nontechnical people. \* \* \* The purity of the water may be lessened by commercial use provided no actual damage is shown.

"In general, determination of total solids and loss of ignition gives a rough estimate of the degree of contamination. \* \* \* A quicker and simpler method for routine testing \* \* \* is oxygen consumed by the permanganate method. The biochemical oxygen demand is more indicative of the real contamination by organic matter, but is so difficult of manipulation and uncertain as to results as to fail to justify the expenditure of time. \* \* \* A suitable method of measuring colors before and after treatment is by use of a Lovibond tintometer, using a cell thickness of 50.8 mm. (2 inches)."

Sewage Disposal and Public Health.—Clyde Potts, president, New Jersey State Board of Health. Public Health News, New Jersey State Department of Health, vol. 12, Nos. 3, 4, February-March, 1927, pp. 68-73. (Abstract by E. C.

Sullivan.)

This paper, delivered at the short course for sewage-plant operators, Rutgers University, New Brunswick, N. J., January 17, 1927, traces the history of sewage disposal in relation to public health and states that "its intimate connection with the public health has come up hand in hand with the discoveries in the sciences of bacteriology and water chemistry." Mention is made of the early

attempts in the treatment of sewage, mainly to avoid public nuisances or to utilize the fertilizing products in sewage, and of the use of sewage for irrigation.

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The principles and theories of Mouras with respect to his "automatic vault cleaner" in Paris in the late seventies are cited, and likewise the "septic tank" introduced by Cameron about 1900.

While the ultimate solution of the sewage-disposal problem has not yet been achieved, the underlying principle that all methods of sewage disposal are founded on bacterial decomposition has become well established. There is a well-defined connection between the subjects of sewage disposal and public health.

The author makes particular mention of the wide use of chlorine as a disinfecting agent for both sewage and water in New Jersey and states that it has been one of the greatest factors in the reduction of the typhoid-fever rate in that State. The effluent of all sewage-treatment plants discharged into potable streams is chlorinated.

The author makes mention of sewage-treatment processes in use in New Jersey and makes mention of the work of the State department of health. Some 365 plants have been established in that State under the supervision of the engineering bureau for the partial or complete removal of human wastes.

Taste and Odor in Water. Ross A. Thurma. Water Works, vol. 66, No. 3, March, 1927, p. 124. (Abstract by R. E. Tarbett.)

This article covers experiences in removing odor from the water supply of the city of St. Paul, Minn., by aeration. Tastes and odors due in part to algal growths and decaying organic matter were present at all times, increasing when the oxygen content of the water became low. Odors noted were musty, swampy, vegetable, earthy, etc.

Algal growth in the lakes has been kept as low as possible by dosing regularly with copper sulphate. The odor in the raw water was reduced in passing through the filtration plant, but not sufficiently to stop complaints from the users. Aeration was carried on by passing the water through a mixing chamber with an air-diffusing pipe laid in the bottom. Air under 5 to 6 pounds pressure was applied at a rate of 6,000 cubic feet per 1,000,000 gallons. Air was forced through the water at such a rate that ventilation of the water was secured. The reduction in odors amounted to 62 per cent, of which 29 per cent was attributable to the filtration plant. Complaints were eliminated. Whether the removal of odor was due to oxidation or ventilation or both combined was not known. The cost of aeration was 50 cents per 1,000,000 gallons water aerated.

Does Cement-Lined Pipe Cause Formation of Scum? Burton G. Philbrick. Water Works Engineering, vol. 80, No. 6, March 16, 1927, p. 364. (Abstract by William L. Havens.)

In the operation of a bottling plant at Quincy, Mass., considerable trouble was experienced on account of the development of a gray, greasy scum which appeared only on the surface of the water. The supply was taken from the city service, which is served from the metropolitan system. It was learned that new cement-lined distribution pipes had recently been installed; and on account of the similarity in appearance between this scum and that usually found on the water pans in which cement briquets are aged, suspicion was directed toward this cause. It was found that there were no data available on the subject, but personal conversation with laboratory men and engineers revealed that this formation of scum is not uncommon. It has frequently been noted in Rhode Island, where the farmers have sunk cement pipes in their wells and have appealed to the State laboratory on noticing the dirty surface scum. Mr. Weston also gives figures obtained from analyses of a Farmton service tap water which comes through 475 feet of cement-lined pipe, showing an increase in hardness

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from 10 to 80 parts per million. In the case of the Quincy supply, the water cleared up by October, and since that time no more scum has been noticed.

Laboratory Work on Malaria in England. Anon. Journal Royal Army Medical Corps, vol. 48, No. 2, February, 1927, pp. 122-130. (A comment on the Report on the First Results of Laboratory Work on Malaria in England, by Lieut. Col. S. P. James. Publications of the League of Nations, III, Health,

March, 1926. (Abstract by M. A. Barber.)

The arrangement officially authorized in England for the conveyance of malaria in the treatment of progressive paralysis is by the bites of infected mosquitoes rather than by the use of infected blood. James describes the technique of infecting mosquitoes and of keeping them in condition for transmitting the disease to man. Anopheles maculipennis is the mosquito species used, and these are infected by exposing them to a person harboring gametocytes of a pure strain of benign tertian malaria. After mosquitoes are infected and the sporozoites developed, they are removed to cold storage, where they may be kept alive for weeks. When needed for infecting a patient, they are gradually warmed up and allowed to bite. They may be transported many miles and used in a distant hospital.

Certain factors limit the proportion of mosquitoes that can acquire infectivity in such experiments. Patients who are good "infectors" are rare. The mortality of the mosquitoes is great, even under favorable conditions in the laboratory. The author believes that even greater hazards are encountered by the malaria parasite in nature. Hardly 5 per cent of the potential malaria-carrying mosquitoes which emerge from the larval stage in nature will ever meet the conditions necessary for them to play the rôle of vectors in nature. Malaria will not spread unless a large number of special conditions are fulfilled, among them those which will secure the necessary longevity of the mosquito. "Colonel James' experiments strengthen the opinion that malaria is essentially a household disease, and the inference is that malaria should be dealt with in the houses of the people rather than in the environment." If the conclusions of Colonel James are valid, "it will be realized that measures directed against the breeding places of mosquitoes as a whole have been to a great extent wasted, and that such measures must now be reconsidered in the light of new knowledge, which undoubtedly indicates that the successful control of malaria depends more on the exact knowledge of the life history of a few individual mosquitoes that succeed in becoming transmitters of malaria than on the general knowledge that the disease is spread by mosquitoes of a particular kind."

It will be remembered that the experiments of Colonel James were done with A. maculipennis in England and do not warrant the assumption that all species under all conditions will behave in a similar manner.

The original paper of Colonel James should be consulted. There is much of interest which can not be treated in a short review.

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## PATIENTS IN INSTITUTIONS FOR THE FEEBLE-MINDED

### Data for November, 1926

Reports for the month of November, 1926, were received from 31 institutions for the care of the feeble-minded.

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Movement of patient population in 31 institutions for the feeble-minded, November, 1926

|                                                                                                           | Male                 | Female                   | Total                 |
|-----------------------------------------------------------------------------------------------------------|----------------------|--------------------------|-----------------------|
| Number of institutions included: Public                                                                   |                      |                          | 30                    |
| Total.                                                                                                    |                      |                          | 31                    |
| Patients on books November 1, 1926:<br>In institutions.<br>On temporary leave                             | 13, 521<br>2, 078    | 13, 333<br>1, 547        | 26, 854<br>3, 625     |
| Total                                                                                                     | 15, 599              | 14, 880                  | 30, 479               |
| Patients admitted during November: First admissions. Readmissions Admitted by transfer. Not accounted for | 153<br>10<br>44<br>0 | 130<br>12<br>1<br>1      | 283<br>22<br>45<br>1  |
| Total received during November Total on books during month                                                | 207<br>15, 806       | 144<br>15, 024           | 351<br>30, 830        |
| Discharged or placed on indefinite parole during November                                                 | 61<br>44<br>38<br>8  | 55<br>2<br>29<br>29<br>2 | 116<br>46<br>67<br>10 |
| Total discharged, transferred, and died                                                                   | 151                  | 88                       | 239                   |
| Patients on books November 30, 1926:<br>In institutions.<br>On temporary leave                            | 13, 599<br>2, 056    | 13, 393<br>1, 543        | 26, 992<br>3, 599     |
| Total                                                                                                     | 15, 655              | 14, 936                  | 30, 591               |

Analysis of movement of patient population of 31 institutions for the feeble-minded, November, 1926

|                                                                         | Male   | Female. | Total  |
|-------------------------------------------------------------------------|--------|---------|--------|
| Per cent change in number of patients during November:                  |        | 177     |        |
| Total (increase)                                                        | 0.36   | 0.38    | 0.37   |
| In institutions (increase)                                              | . 58   | .45     | . 51   |
| On temporary leave (decrease)                                           | 1.06   | .26     | . 75   |
| Per cent of patients absent on temporary leave:                         | 1.00   | . 20    |        |
| Nov. 1                                                                  | 13, 32 | 10.40   | 11.80  |
| Nov. 30.                                                                | 13, 13 | 10.33   | 11.76  |
| Per cent of total admissions (excluding transfers) which were:          | 10.10  | 10.00   | 44. 11 |
| First admissions                                                        | 93, 86 | 91.55   | 92.79  |
| Readmissions                                                            | 6.14   | 8.45    | 7, 21  |
| Per cent of total patients discharged during November (based on average | 0.12   | 0. 10   | 1. 21  |
| number for month)                                                       | . 39   | .37     | . 38   |
| Males per 1,000 females                                                 | . 39   | .01     | 1.048. |
| Deaths per 1,000 patients under treatment (annual basis)                | 29, 25 | 23, 48  | 26, 44 |
| por 1,000 patients under treatment (annual basis)                       | 20. 20 | 20, 10  | 20, 41 |
|                                                                         |        | - 1     |        |

## DEATHS DURING WEEK ENDED MAY 14, 1927

Summary of information received by telegraph from industrial insurance companies for week ended May 14, 1927, and corresponding week of 1926. (From the Weekly Health Index, May 18, 1927, issued by the Bureau of the Census, Department of

| Commerce)                                              | Week ended<br>May 14, 1927 | Corresponding<br>week, 1926 |
|--------------------------------------------------------|----------------------------|-----------------------------|
| Policies in force                                      | 65, 765, 714               | 64, 410, 614                |
| Number of death claims                                 | 12, 343                    | 13, 629                     |
| Death claims per 1,000 policies in force, annual rate_ | 9.8                        | 11.0                        |

Deaths from all causes in certain large cities of the United States during the week ended May 14, 1927, infant mortality, annual death rate, and comparison with corresponding week of 1926. (From the Weekly Health Index, May 18, 1927, issued by the Bureau of the Census, Department of Commerce)

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                                                                                                                                                                                                                                                                                                                                                                                        | death<br>rate per                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                      | s under<br>ear                                                   | Infant<br>mortality<br>rate,<br>week<br>ended<br>May 14,<br>1927 2                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Total deaths                                                                                                                                                                                                                                                                            | Death rate 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1,000,<br>corre-<br>sponding<br>week<br>1925                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Week<br>ended<br>May 14,<br>1927                                                                                                     | Corresponding week 1926                                          |                                                                                                      |
| Total (67 cities)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7, 286                                                                                                                                                                                                                                                                                  | 12.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 13. 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 778                                                                                                                                  | * 917                                                            | 4 64                                                                                                 |
| Akron Albany 6 Atlanta White Colored Baltimore 5 White Colored Birmingham White Colored Boston Bridgeport Buffalo Cambridge Camden Canton Chicago 3 Cincinnati Cleveland Colored Dallas White Colored Dayton Denver Des Moines Detroit Duluth El Paso Erie Fall River 5 Filit Fort Worth White Colored Colored Goston Bridge Colored Detroit Colored Detroit Duluth Colored Detroit Colored Goston White Colored Goston White Colored Goston Union White Colored Goston Colored Goston White Colored Goston Colored Go | 45<br>39<br>77<br>41<br>36<br>60<br>60<br>56<br>21<br>35<br>259<br>36<br>33<br>36<br>650<br>140<br>176<br>60<br>41<br>41<br>33<br>8<br>8<br>8<br>81<br>35<br>26<br>27<br>26<br>30<br>27<br>28<br>28<br>29<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41 | (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.7 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.6 (°) 13.8 (°) 13.6 (°) 13.8 (°) 13.6 (°) 13.8 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.8 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.8 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.6 (°) 13.8 (°) 13.6 (°) 13.8 (°) 13.6 (°) 13.8 (°) 13.6 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) 13.8 (°) | 19. 7  15. 4 13. 4 27. 2 16. 1 12. 2 22. 0 16. 2  14. 4 11. 1 13. 9 11. 9 11. 8 7 19. 0 11. 8 14. 1 18. 7 19. 0 11. 8 14. 1 18. 7 19. 0 11. 8 11. 1 11. 8 11. 9 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1 1 1 1 1 1 1 1 1 1 1 | 8 5 12 6 6 6 6 6 8 5 12 2 10 10 10 10 10 10 10 10 10 10 10 10 10 | 553<br>503<br>124<br>92<br>199<br>888<br>533<br>522<br>81<br>64<br>33<br>108<br>53<br>16<br>29<br>29 |

Annual rate per 1,000 population.
 Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.
 Data for 66 cities.

Data for 62 cities.
 Data for 62 cities.
 Deaths for week ended Friday, May 13, 1927.
 In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Indianapolis 11, Kansas City, Kans., 14, Knoxville 15, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended May 14, 1927, infant mortality, annual death rate, and comparision with corresponding week of 1926—Continued

| DISKASE                                |              | ded May<br>1927 | Annual death rate per                        |                                  | s under<br>rear | Infant<br>mortality                       |
|----------------------------------------|--------------|-----------------|----------------------------------------------|----------------------------------|-----------------|-------------------------------------------|
| City                                   | Total deaths | Death<br>rate   | 1,000,<br>corre-<br>sponding<br>week<br>1926 | Week<br>ended<br>May 14,<br>1927 | ay 14, week     | rate,<br>week<br>ended<br>May 14,<br>1927 |
| Kansas City, Mo                        | 105          | 14.3            | 12.4                                         | 20                               | 10              |                                           |
| Knoxville                              | 26           | 13.3            |                                              | 0                                |                 |                                           |
| White                                  | 22           | 1               |                                              | 0                                |                 |                                           |
| Colored                                | 4            | (6)             |                                              | 0                                |                 |                                           |
| Los Angeles                            | 245          |                 |                                              | 25                               | 15              | 7                                         |
| Louisville                             | 75           | 12.2            | 14.4                                         | 1                                | 10              |                                           |
| White                                  | 50           |                 | 12.6                                         | 1                                | 7 3             | 10                                        |
| Colored                                | 25<br>23     | 10.9            | 24. 4<br>15. 6                               | 0 5                              | 3               | 9                                         |
| Lowell                                 | 36           | 17. 9           | 10.0                                         | 2                                | 3               | 5                                         |
| Lynn                                   | 69           | 20. 1           | 17. 4                                        | 6                                | 5               | 0.                                        |
| White                                  | 27           | 20. 1           | 12.3                                         | 3                                | 3               |                                           |
| WhiteColored                           | 42           | (9)             | 26.5                                         | 3                                | 2               |                                           |
| Iilwaukee                              | 117          | (9)             | 11.8                                         | 17                               | 15              | 79                                        |
| Inneapolis                             | . 79         | 9.3             | 13.5                                         | . 9                              | 15              | 5                                         |
| leshville 8                            | 47           | 17.8            | 19.0                                         | 5                                | 4               |                                           |
| White                                  | 27           |                 | 13.8                                         | 2                                | 2               |                                           |
| Colored                                | 20           | (9)             | 32.1                                         | 3                                | 2               |                                           |
| Yow Bedford                            |              | 8.7             | 11.8                                         | 4 5                              | 7               | 60                                        |
| Vew Haven                              | 39           | 11.0            | 2.0<br>16.8                                  |                                  | 1 16            | 70                                        |
| lew Orleans                            | 160          | 20.8            | 10.0                                         | 23                               | 10              |                                           |
| White                                  | 78           | (6)             | 12.8<br>28.2<br>12.7                         | 16                               | 6               |                                           |
| lew York                               | 1, 505       | 13.1            | 12.7                                         | 152                              | 181             | 68                                        |
| Bronx Borough                          | 188          | 10.6            | 9.6                                          | 13                               | 14              | 4)                                        |
| Brooklyn Borough                       | 505          | 11.6            | 11.8                                         | 56                               | 77              | 58                                        |
| Manhattan Borough                      | 647          | 18.6            | 16.4                                         | 67                               | 72              | 79                                        |
| Queens Borough                         | 125          | 8.1             | 8.6                                          | 12                               | 14              | 51                                        |
| Richmond Borough                       | 40           | 14. 2           | 18.6                                         | 4                                | 4               | 71                                        |
| ewalk, N. J.                           | 86           | 9.6             | 13.5                                         | 11                               | 16              | 51 - 17 51                                |
| aklandklehoma City                     | 88           | 11.3            | 8.6                                          | 3                                | 2               | . 35                                      |
| Klahoma City                           | 32           |                 |                                              | 2 2                              | 1               | 22                                        |
| maha                                   | 52<br>28     | 12.4            | 14.7                                         | 2                                | 4 5             | . 38                                      |
| atersonbiladelphia                     | 506          | 13. 0           | 12.8                                         | 53                               | 52              | 71                                        |
| ittsburgh                              | 181          | 14.7            | 13, 3                                        | 20                               | 28              | 70                                        |
| ortland, Oreg                          | - 67         |                 |                                              | 6                                | 1               | 63                                        |
| rovidence                              | 49           | 9.1             | 11.2                                         | 10                               | 5               | 85                                        |
| ichmond                                | 59           | 16.0            | 13. 2                                        | 10                               | - 4             | 132                                       |
| White                                  | 39           | *******         | 12.1                                         | 4                                | 2               | 81                                        |
| Colored                                | 20           | (9)             | 16.1                                         | 6                                | 2               | 228                                       |
| ochester                               | 88           | 14.2            | 14.3                                         | 13                               | 11              | 100                                       |
| Louis                                  | 207          | 12.9<br>11.7    | 13. 1                                        | 7 5                              | 19              | 45                                        |
| It Lobo City                           | 35           | 13. 4           | 14.5                                         | 4                                | 5               | 61                                        |
| Paul.<br>alt Lake City s<br>an Antonio | 63           | 15.6            | 15.0                                         | 13                               | 12              | 112 01                                    |
| an Diego                               | 40           | 18. 1           | 17.5                                         | 4                                |                 | 85                                        |
| an Francisco                           | 143          | 12.9            | 10.9                                         | 11                               | . 4             | 69                                        |
| chenectady                             | 21           | 11.8            | 9.0                                          | 3                                | 1               | 90                                        |
| eattle                                 | 64           |                 |                                              | 1 1 7                            | 2               | 42                                        |
| omerville                              | 14           | 7. 2<br>15. 3   | 8.9                                          | 1                                | 4               | 36                                        |
| pringfield, Mass                       | 32           | 15.3            | 10.0                                         | 1                                | 1               | 25                                        |
| pringueid, Mass                        | 35           | 14.5            | 18.3                                         | 7                                | 8               | 108                                       |
| yracuse                                | 35<br>23     | 9.3<br>11.2     | 11.3                                         | 3                                |                 | 39<br>47                                  |
| acomaoledo                             | 76           | 13.0            | 14.1                                         | 2 7                              | 2 7             | 67                                        |
| renton                                 | 48           | 18.3            | 13.6                                         | 6                                | 4               | 104                                       |
| renton.<br>Vashington, D. C.           | 119          | 11.5            | 14.9                                         |                                  | 23              | 29                                        |
| White                                  | 70           |                 | 12.3                                         | 5 3                              | 15              | 25                                        |
| Colored                                | 49           | (9)             | 22.6                                         | . 2                              | 8               | 37                                        |
| Vater bury                             | 20           |                 |                                              | 2 0                              | 6               | 0                                         |
| ilmington, Del                         | 30           | 12.4            | 11.4                                         | 2                                | 3               | 50<br>24                                  |
| orcester                               | 58           | 15. 5           | 14:3                                         | 2                                | 7               | 24                                        |
| onkers                                 | 22           | 9.6             | 11.2                                         | 2                                | 2               | 45                                        |
| oungstown                              | 35           | 10.8            | 13.3                                         | 2                                | 11              | 28                                        |

- .504

<sup>&</sup>lt;sup>5</sup> Deaths for week ended Friday, May 14, 1927.
<sup>6</sup> In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: A thanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Indianapolis 14, Kanasa City, Kans, 14, Knoxville 15, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Richmond 32, and Washington, D. C., 25.

# PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

## UNITED STATES

### CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

### Reports for Week Ended May 21, 1927

| DIPRTHERIA     | Cases | · INFLUENZA—continued | Cases |
|----------------|-------|-----------------------|-------|
| Arisona        | 2     | Maryland 1            | 10    |
| Arkansas       | 5     | Massachusetts         | 9     |
| Colorado       | 4     | Michigan              | 4     |
| Connecticut    | 22    | New Jersey            | 4     |
| Delaware       | 2     | Oregon                | 13    |
| Florida        | 12    | South Dakota          | 1     |
| Idaho          | 2     | Texas                 | 45    |
| Illinois       | 134   | West Virginia         | 30    |
| Kansas         | 6     | Wisconsin             | 26    |
| Louisiana      | 11    |                       |       |
| Maine          | 6     | MEASLES               | 50    |
| Maryland 1     | 43    | Arizona               |       |
| Massachusetts  | 85    | Arkansas              |       |
| Michigan       | 82    | Colorado              |       |
| Montana        | 3     | Connecticut           |       |
| New Jersey     | 140   | Delaware              |       |
| New Mexico     | 2     | Florida               |       |
| New York 1     | 92    | Idaho                 |       |
| North Carolina | 10    | Illinois              |       |
| Oregon         | 9     | Kansas                |       |
| Pennsylvania   | 167   | Louisiana             |       |
| Texas          | 15    | Maine                 |       |
| Utah 1         | 8     | Maryland 1            |       |
| Washington     | 14    | Massachusetts         |       |
| West Virginia  | 16    | Michigan              |       |
| Wisconsin      | 31    | Montana               |       |
|                |       | New Jersey            |       |
| INFLUENZA      |       | New Mexico            |       |
| Arkansas       | 54    | New York 1            |       |
| Colorado       | 1     | North Carolina        |       |
| Connecticut    | 2     | Oregon                |       |
| Florida        | 2     | Pennsylvania          |       |
| Illinois       | 73    | South Dakota          | 65    |
| Kansas         | 5     | Texas                 | 198   |
| Louisiana      | 6     | Utah 1                |       |
| Maine          | 1     | Vermont               | 153   |

| Washington                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cases<br>488 | Oregon                | Case |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------|------|
| West Virginia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 157          | Pennsylvania          |      |
| Wisconsin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 879          |                       | 53   |
| W ISCOUSIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 019          | South Dakota<br>Texas | 1    |
| MENINGOCOCCUS MENINGITIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              | Utah 1                | 3    |
| manufacture of the second seco |              | Vermont               |      |
| Connecticut                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | . 1          | Washington            | 3    |
| Florida                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1            | West Virginia         | £(   |
| Idaho                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1            | Wisconsin             |      |
| Illinois                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5            | W ISCONSTILL          | 153  |
| Kansas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1            | SMALLPOX .            |      |
| Massachusetta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1            | Arkansas              |      |
| Michigan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3            | Colorado              | 1    |
| New Jersey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1            | Florida               | 6    |
| New York 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2            | Idaho                 | 7    |
| Oregon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1            | Illinois              | 33   |
| Pennsylvania                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3            | Kansas                | 11   |
| Washington                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3            | Louisiana             | 4    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | Michigan              | 43   |
| POLIOMYELITIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | Montana               | 3    |
| Arizona                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1            | New York 3            | 17   |
| Connecticut                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1            | North Carolina        | 44   |
| Illinois                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3            | Oregon                | 20   |
| Kansas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1            | Teles.                | 47   |
| Louisiana                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2            | Utah 1                | 4    |
| Massachusetts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2            | Washington            | 42   |
| New Jersey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2            | West Virginia_11      | 28   |
| New Mexico                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1            | Wisconsin             | 25   |
| New York 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3            | Wisconsid.            | 40   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | TYPHOID FEVER         |      |
| SCARLET FEVER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | Arizona               | 4    |
| Arizona                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8            | Arkansas              | 13   |
| Arkansas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2            | Colorado              | 1    |
| Colorado                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 97           | Florida               | 17   |
| Connecticut                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 99           | Idaho                 | 2    |
| Delaware                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10           | Illinois              | 16   |
| Florida                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5            | Kansas                | 6    |
| Idaho                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 13           | Louisiana.            | 18   |
| Illinois                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 258          | Maryland 1            | 7    |
| Kansas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 66           | Massachusetts         | 8    |
| Louisiana                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8            | Michigan              | 9    |
| Maine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 48           | Montana               | 3    |
| Maryland 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 75           | New York ?            | 14   |
| Massachusetts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 439          | North Carolina        | 9    |
| Michigan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 247          | Oregon                | 6    |
| Montana                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 31           | Pennsylvania          | 9    |
| New Jersey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 262          | Texas                 | 6    |
| New Mexico                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 9            | Washington            | 5    |
| New York *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 276          | West Virginia         | 11   |
| North Carolina                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 18           | Wisconsin             | 3    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                       | 0    |
| Reports for We                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ek E         | nded May 14, 1927     |      |
| DIPHTHERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | nses         | SCARLET FEVER         | asos |
| District of Columbia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 18           | District of Columbia  | 25   |
| INFLUENZA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              | North Dakota          | 32   |
| District of Columbia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              | SMALLPOX              |      |
| - OTHER OF CONTINUES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1            | District of Columbia  | 2    |
| MEASLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              | North Dakota          | 3    |
| MEASLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                       |      |
| District of Columbia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5            | TYPHOID FEVER         |      |
| District of Columbia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5 71         | North Dakota          | 1    |

# SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

| State                         | Cere-<br>bro-<br>spinal<br>menin-<br>gitis | Diph-<br>theria                                             | Influ-<br>enza              | Ma-<br>laria             | Mea-<br>sles                                                                  | Pel-<br>lagra      | Polio-<br>mye-<br>litis                    | Scarlet<br>fever                                                   | Small-<br>pox                                       | Ty-<br>phoid<br>fever                       |
|-------------------------------|--------------------------------------------|-------------------------------------------------------------|-----------------------------|--------------------------|-------------------------------------------------------------------------------|--------------------|--------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------|
| March, 1927 Colorado Delaware | 1                                          | 70<br>7                                                     | 6 3                         |                          | 4, 547<br>52                                                                  |                    | 0                                          | 954<br>138                                                         | 49                                                  | 6                                           |
| Alabama                       | 1<br>10<br>3<br>19<br>3<br>6               | 115<br>76<br>118<br>381<br>406<br>484<br>1, 992<br>29<br>50 | 812<br>2<br>65<br>19<br>107 | 118<br>2<br>1<br>4<br>49 | 1, 326<br>1, 623<br>1, 680<br>1, 401<br>1, 027<br>926<br>3, 584<br>628<br>698 | 63<br>2<br>0<br>48 | 2<br>0<br>0<br>4<br>0<br>2<br>12<br>4<br>0 | 62<br>670<br>197<br>2,001<br>1,077<br>1,398<br>4,747<br>327<br>191 | 239<br>27<br>70<br>0<br>128<br>0<br>23<br>37<br>100 | 93<br>20<br>24<br>26<br>29<br>26<br>71<br>8 |

| Murch, 1921            |       |
|------------------------|-------|
| Chicken pox:           | Cases |
| Colorado               | 287   |
| Delaware               | 21    |
| German measles:        |       |
| Colorado               | 32    |
| Impetigo contagiosa:   |       |
| Colorado               | 10    |
| Mumps:                 |       |
| Colorado               | 94    |
| Delaware               | 7     |
| Ophthalmia neonatorum: |       |
| Delaware               | 1     |
| Scables:               |       |
| Colorado               | 1     |
| Septie sore throat:    |       |
| Colorado               | 4     |
| Whooping cough:        |       |
| Colorado               | 46    |
| Delaware               | 16    |
| April, 1927            |       |
| Actinomycosis          |       |
| Massachusetts          | 1     |
| Anthrax:               |       |
| Massachusetts          | 2     |
| New Jersey             | 1     |
| Tennessee.             |       |
| Chicken pox:           |       |
| Alabama                | 201   |
| Colorado               | 150   |
| Iowa.                  | 170   |
| Massachusetts          | 971   |
| Michigan               | 200   |
| New Jersey.            |       |
| New York               | -,-   |
| North Dakota           | 28    |
| Tennessee              | 278   |
| Dengue:                | 2.0   |
| Alabama                | . 3   |
|                        |       |

March, 1927

| April, 1927—Continued   |      |
|-------------------------|------|
| Dysentery:              | Case |
| New Jersey              |      |
| New York                | . :  |
| Tennessee               |      |
| German measles:         |      |
| Colorado                | . 4  |
| Iowa                    | . 1  |
| Massachusetts           | . 93 |
| Michigan                | . 15 |
| New York                | 1,30 |
| Impetigo contagiosa:    |      |
| Colorado                | . (  |
| Iowa                    | . 1  |
| Lead poisoning:         |      |
| Massachusetts           | -    |
| Lethargic encephalitis: |      |
| Alabama                 | . 1  |
| Massachusetts           |      |
| Michigan                |      |
| New York                |      |
| Mumps:                  |      |
| Alabama                 | . 14 |
| Colorado                |      |
| Iowa.                   |      |
| Massachusetts           |      |
| Michigan                |      |
| New York                |      |
| North Dakota            |      |
| Tennessee               |      |
| Ophthalmia neonatorum:  |      |
| Massachusetts           | 163  |
| New Jersey              |      |
|                         |      |
| Paratyphoid fever:      |      |
| New York                | . 1  |
| Puerperal septicemia:   |      |
| New York                | . 10 |
| Dahies in animals       |      |
| New York                | 20   |

| April, 1927—Continued |       | April, 1927—Continued |       |
|-----------------------|-------|-----------------------|-------|
| Rabies in man:        | Cases | Trachoma—Continued.   | Cases |
| Michigan              | . 1   | New Jersey            | 3     |
| New York              | . 2   | New York              | 1     |
| Tennessee             | . 3   | Typhus fever:         |       |
| Septic sore throat:   |       | Alabama               | 1     |
| Colorado              | 1     | Vincent's angina:     |       |
| Iowa                  | 1     | Iowa                  | 1     |
| Massachusetts         | 21    | New York              | 91    |
| Michigan              | 3     | Whooping cough:       |       |
| New York              | 20    | Alabama               | 308   |
| Tennessee             | 3     | Colorado              | 52    |
| Tetanus:              |       | Iowa                  | -     |
| Massachusetts         | 2     | Massachusetts         |       |
| New York              | 5     | Michigan              | 539   |
| Trachoma:             |       | New Jersey            | 817   |
| Iowa                  | 1     | New York              |       |
| Massachusetts         | 3     | .Tennessee            | 357   |

# GÈNERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 101 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 30,900,000. The estimated population of the 95 cities reporting deaths is more than 30,280,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Weeks ended May 7, 1927, and May 8, 1926

|                                                | 1927              | 1926              | Estimated expectancy                    |
|------------------------------------------------|-------------------|-------------------|-----------------------------------------|
| Cases reported                                 |                   | P-OUT             | 1 - 1 - 12                              |
| Diphtheria: 39 States                          | 1,617<br>1,088    | 1, 171<br>674     | 847                                     |
| Measles: 38 States                             | 13, 484<br>4, 149 | 24, 472<br>9, 999 |                                         |
| Polionyelitis: 39 States Scarlet fever:        | 16                | 12                | *************************************** |
| 39 States 101 cities                           | 4,773<br>2,140    | 3, 912<br>1, 714  | 1, 151                                  |
| Smallpox: 39 States                            | 674<br>130        | 639<br>153        | 130                                     |
| Typhoid fever: 39 States 101 cities            | 252<br>56         | 208<br>45         | 52                                      |
| Deaths reported                                | 100               |                   | Tod X                                   |
| Influenza and pneumonia: 95 cities. Smallpox:  | 837               | 1,071             |                                         |
| 95 cities. Chicago Los Angeles. San Francisco. | 0 0               | 7<br>1<br>5       |                                         |

### City reports for week ended May 7, 1927

The estimated expectancy" given for diphtheria, pollomyelitis, scariet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics, or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have new teen received for the full nine years, data are used for as many years as possible, but no year earlier than 1918 is included. In obtaining the estimated expectancy the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

|                               |                                             | 200                                         | Diph                                        | theria                 | Infl                   | ienza                    | 1                                       | 1300                             | 200                                        |
|-------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|------------------------|------------------------|--------------------------|-----------------------------------------|----------------------------------|--------------------------------------------|
| Division, State, and city     | Population<br>July 1,<br>1925,<br>estimated | Chick-<br>en pox,<br>cases<br>re-<br>ported | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Cases<br>re-<br>ported | Deaths<br>re-<br>ported- | Mea-<br>sles,<br>cases<br>re-<br>ported | Mumps,<br>cases<br>re-<br>ported | Pneu-<br>monia,<br>deaths<br>re-<br>ported |
| NEW ENGLAND                   | The state of                                |                                             |                                             |                        |                        | 1                        |                                         |                                  |                                            |
| Maine:                        | 7000                                        |                                             | 2 33                                        | 5                      | 0.00                   | -                        |                                         | 3.                               | 7.15                                       |
| Portland<br>New Hampshire:    | 75, 333                                     | 1                                           | 1                                           | 1                      | 0                      | 0                        | 0                                       | 1                                | 1                                          |
| Concord                       | 22, 546                                     | 0                                           | 0                                           | 0                      | 0                      | 0                        | 1                                       | 0                                | 1                                          |
| Vermont:                      | 83,007                                      | 0                                           | 1                                           | 0                      | 0                      | 3                        | 0                                       | 0                                | 3                                          |
| Barre                         | 10, 008                                     | 0                                           | 0                                           | 0                      | 0                      | 0                        | 0                                       | 0                                | 0                                          |
| Boston                        | 779, 620<br>128, 993                        | 88                                          | 49                                          | 34                     | 2                      | 2                        | 92                                      | 90                               | 27                                         |
| Fall River                    | 128, 993<br>142, 065                        | 10                                          | 3 2                                         | 8                      | 1                      | 0                        | 0                                       | 2                                | 1 2                                        |
| Springfield<br>Worcester      | 190, 757                                    | 4                                           | 4                                           | 4                      | 0                      | 0                        | 0                                       | 2 8                              | 3                                          |
| Rhode Island:<br>Pawtucket    | 69, 760                                     | 4                                           | 1                                           | 0                      | 0                      | 0                        | 0                                       | 1                                | 1                                          |
| Providence                    | 267, 918                                    | ō                                           | 9                                           | 1                      | 0                      | 0                        | 2                                       | 0                                | 6                                          |
| Connecticut:<br>Bridgeport    | (1)                                         | 3                                           | 4                                           | 8                      | 1                      | 0                        | 18                                      | 2                                | 1                                          |
| Hartford                      | 160, 197                                    | 6                                           | 5                                           | 2                      | 0                      | 0                        | 1                                       | 3                                | 10                                         |
| New Haven                     | 178, 927                                    | 0                                           | 3                                           | 1                      | 0                      | 0                        | 1                                       | 7                                | 7                                          |
| MIDDLE ATLANTIC               | 200                                         | 1                                           | -                                           | 6                      |                        |                          |                                         | 1000                             |                                            |
| New York:                     | 2-2-34 O                                    | 000                                         | 800                                         |                        | 44.50                  |                          |                                         | 113.2                            |                                            |
| Buffalo                       | 538, 016                                    | 13                                          | 9                                           | - 8                    |                        | 0                        | 10                                      | 11                               | 16                                         |
| New York<br>Rochester         | 5, 873, 356<br>316, 786                     | 273                                         | 227                                         | 415<br>23              | 49                     | 17                       | 56<br>20                                | 444                              | 204                                        |
| Syracuse                      | 182, 003                                    | ii                                          | 8                                           | 1                      |                        | 0                        | 140                                     | 9                                | 4                                          |
| New Jersey:<br>Camden         | 198 649                                     |                                             |                                             | 10                     | 0                      | 0                        | 1                                       | 1                                | 35.                                        |
| Newark                        | 128, 642<br>452, 513                        | 96                                          | 14                                          | 13                     | 2                      | 0                        | 11                                      | 122                              | 6                                          |
| Trenton                       | 132, 020                                    | 5                                           | 3                                           | 1                      | 0                      | 2                        | 0                                       | 0                                | 4                                          |
| Pennsylvania:<br>Philadelphia | 1, 979, 364                                 | 94                                          | 70                                          | 55                     |                        | 5                        | 39                                      | 140                              | 58                                         |
| Pittsburgh                    | 631, 563                                    | 38                                          | 16                                          | 26                     |                        | . 7                      | 90                                      | 6                                | 43                                         |
| Reading                       | 112, 707                                    | 8                                           | 3                                           | 1                      |                        | 0                        | 64                                      | 30                               | 2                                          |
| EAST NORTH CENTRAL            | 1                                           |                                             | 0.00                                        | 1-1                    |                        |                          |                                         | Vary 1                           | 1                                          |
| Ohio:                         | 0.050                                       |                                             |                                             |                        | 23.2                   |                          |                                         |                                  |                                            |
| Cincinnati                    | 409, 333                                    | 12                                          | 6                                           | 9                      | 0                      | 2                        | 2                                       | 16                               | 13                                         |
| Cleveland<br>Columbus         | 936, 485<br>279, 836                        | 84                                          | 22                                          | 56                     | 2 0                    | 1                        | 7                                       | 92                               | 17                                         |
| Toledo                        | 287, 380                                    | 82                                          | 4                                           | 6                      | 1                      | î                        | 17                                      | 4                                | 4                                          |
| Indiana:<br>Fort Wayne        | 97, 846                                     | 5                                           | 2                                           | 1                      | 0                      | 0                        | 24                                      | 0                                | . 4                                        |
| Indianapolis                  | 358, 819                                    | 24                                          | 4                                           | 5                      | 0                      | 0                        | 14                                      | 25                               | 21                                         |
| South Bend                    | 80, 091                                     | 0                                           | 1                                           | 1                      | 0.                     | 0                        | . 8                                     | . 0                              | 3                                          |
| Torre Haute                   | 71,071                                      | 0                                           | 0                                           | 0                      | 0                      | . 0                      | 28                                      | 0                                | . 0                                        |
| Chicago                       | 2, 995, 239                                 | 100                                         | 77                                          | 86                     | 14                     | 1                        | 576                                     | 178                              | 65                                         |
| Peoria                        | 81, 564<br>63, 923                          | 2 3                                         | 0                                           | 0                      | 0                      | 0                        | 8                                       | 0                                | 1                                          |
| Springfield                   | V 15.753.1                                  |                                             |                                             |                        | 0                      | 0                        | 11                                      | 0                                |                                            |
| Detroit                       | 1, 245, 824                                 | 82                                          | 46                                          | 53                     | 2                      | 4                        | 9                                       | 135                              | 37                                         |
| Flint Grand Rapids            | 130, 316<br>153, 608                        | 10                                          | 3                                           | 4 0                    | 0                      | 0                        | 14                                      | 1 2                              | 10                                         |

<sup>&</sup>lt;sup>1</sup>Ne estimate made.

|                                                  | 21-79                                                | m                                           | Diph                                        | theria                 | Influ                  | ienza                   | Man                                     |                                  | Dnon                                       |
|--------------------------------------------------|------------------------------------------------------|---------------------------------------------|---------------------------------------------|------------------------|------------------------|-------------------------|-----------------------------------------|----------------------------------|--------------------------------------------|
| Division, State, and city                        | Population<br>July 1,<br>1925,<br>estimated          | Chick-<br>en pox,<br>cuses<br>re-<br>ported | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Cases<br>re-<br>ported | Deaths<br>re-<br>ported | Mea-<br>sles,<br>cases<br>re-<br>ported | Mumps,<br>cases<br>re-<br>ported | Pneu-<br>monia,<br>deaths<br>re-<br>ported |
| EAST NORTH CENTRAL—<br>continued                 |                                                      |                                             |                                             |                        |                        |                         |                                         | -                                | Total S                                    |
| Wisconsin: Kenosha                               | 50, 891<br>46, 385<br>509, 192<br>67, 707<br>39, 671 | 14<br>5<br>80<br>10<br>6                    | 1<br>1<br>11<br>1<br>0                      | 0<br>0<br>14<br>4<br>2 | 0 0 0 0 0              | 0 0 0 0 0               | 15<br>19<br>108<br>6<br>6               | 43<br>0<br>127<br>26<br>0        |                                            |
| WEST NORTH CENTRAL<br>Minnesota:                 |                                                      |                                             | ELY                                         |                        | 37                     | Jan 1                   |                                         | . 4                              | 1165                                       |
| Duluth<br>Minneapolis<br>St. Paul                | 110, 502<br>425, 435<br>246, 001                     | 12<br>102<br>29                             | 1<br>16<br>14                               | 0<br>7<br>15           | 0                      | 0<br>0<br>1             | 27<br>13<br>27                          | 1<br>0<br>1                      |                                            |
| Davenport Des Moines Sioux City Waterloo         | 52, 469<br>141, 441<br>76, 411<br>38, 771            | 0 0 1 1 1                                   | 1<br>3<br>1<br>1                            | 0<br>2<br>0<br>0       | 0 0 0                  |                         | 3<br>4<br>105<br>5                      | 3<br>0<br>7<br>0                 |                                            |
| Missouri: Kansas City St. Joseph St. Louis       | 367, 481<br>78, 342<br>821, 543                      | 22<br>1<br>27                               | 6<br>1<br>38                                | 2<br>0<br>40           | 0                      | 0<br>0<br>0             | 79<br>49<br>56                          | 5<br>0<br>85                     | 11                                         |
| North Dakota:<br>Fargo<br>Grand Forks            | 26, 403<br>14, 811                                   | 3 0                                         | 0                                           | 0                      | 0                      | 0                       | 30                                      | 9                                |                                            |
| South Dakota: Aberdeen Sioux Falls               | 15, 036<br>30, 127                                   | 1                                           | 0                                           | 0                      | 0                      |                         | 10<br>27                                | 1 0                              |                                            |
| Nebraska:<br>Lincoln<br>Omaha                    | 60, 941<br>211, 768                                  | 5 0                                         | 1 2                                         | 1                      | 0                      | 0                       | 114<br>51                               | 6<br>15                          | - 1                                        |
| Kansas:<br>Topeka<br>Wichita                     | 55, 411<br>88, 367                                   | 1 15                                        | 0                                           | 1 0                    | 0                      | 1 0                     | 290<br>37                               | 0                                |                                            |
| SOUTH ATLANTIC                                   |                                                      |                                             |                                             |                        | 1.35                   |                         |                                         | in the                           |                                            |
| Delaware:<br>Wilmington                          | 122, 049                                             | 2                                           | 1                                           |                        | 0                      | 0                       | 0                                       | 0                                | 1                                          |
| Maryland: Baltimore Cumberland Frederick         | 796, 296<br>33, 741<br>12, 035                       | 06                                          | 22<br>0<br>0                                | 32<br>0<br>0           | 0                      | 5<br>0<br>0             | 4<br>2<br>0                             | 20<br>1<br>0                     | 3                                          |
| District of Columbia: Washington Virginia:       | 497, 906                                             | 35                                          | 12                                          | 20                     | 2                      | 2                       | 12                                      | 0                                | 9 1                                        |
| Lynchburg<br>Norfolk<br>Richmond                 | 30, 395<br>(1)<br>186, 403<br>58, 208                | 14<br>23<br>4<br>1                          | 1<br>0<br>2<br>0                            | 2<br>2<br>3<br>0       | 0 0 0                  | 0<br>0<br>2<br>0        | 21<br>271<br>110<br>2                   | . 16<br>7<br>0                   |                                            |
| West Virginia:<br>Charleston<br>Wheeling         | 49, 019<br>56, 208                                   | 1                                           | 0                                           | 0                      | 0                      | 0                       | 14                                      | 0                                | (Octob                                     |
| North Carolina: Raleigh Wilmington Winston-Salem | 30, 371<br>37, 061<br>69, 031                        | 7 0 7                                       | 0<br>1<br>1                                 | 0 0                    | 0                      | 0 0                     | 68<br>31<br>210                         | 0<br>13<br>47                    |                                            |
| Charleston Columbia Greenville                   | 73, 125<br>41, 225<br>27, 311                        | 1                                           | 0                                           | 0 0                    | 35<br>0<br>0           | 0                       | 22<br>3<br>3                            | 1 1                              |                                            |
| Georgia:<br>Atlanta<br>Brunswick                 | (¹)<br>16, 809                                       | 2 0                                         | 1 0                                         | 0                      | 9                      | 0                       | 35<br>0                                 | 6 15                             |                                            |
| Savannah Florida: Miami St. Petersburg Tampa     | 69, 754<br>26, 847<br>94, 743                        | 10                                          | 3 0                                         | 0                      | 0.                     | 0 0                     | 6<br>3                                  | 2                                |                                            |

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|                                               | 1000                                        |                                             | Diph                                        | theria                 | Influ                  | ienza                   |                                         |                                  | -                                          |
|-----------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|------------------------|------------------------|-------------------------|-----------------------------------------|----------------------------------|--------------------------------------------|
| Division, Etate, and city                     | Population<br>July 1,<br>1925,<br>estimated | Chick-<br>en pox,<br>cases<br>re-<br>ported | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Cases<br>re-<br>ported | Deaths<br>re-<br>ported | Mea-<br>sies,<br>cases<br>re-<br>ported | Mumps,<br>cases<br>re-<br>ported | Pneu-<br>monia,<br>deaths<br>re-<br>ported |
| EAST SOUTH CENTRAL                            | E 71                                        |                                             |                                             | 1                      |                        |                         | -                                       | (0.65                            | il de s                                    |
| Kentucky:                                     | 19:                                         |                                             |                                             | 10 3                   |                        |                         |                                         | a. a.                            |                                            |
| Covington<br>Louisville                       | 58, 309<br>305, 935                         | 0 2                                         | 3                                           | 0                      | 0                      | 0                       | . 4                                     | 8                                | 13                                         |
| Tennessee:<br>Memphis<br>Nashville            | 174, 533<br>136, 220                        | 1<br>14                                     | 3 0                                         | 5                      | 0                      | 5 0                     | 5                                       | 3 0                              | 4                                          |
| Alabama:<br>Birmingham                        | 205, 670                                    | 9                                           | 1                                           | 7                      | 5                      | 1                       | 49                                      | 7                                |                                            |
| Mobile<br>Montgomery                          | 65, 955<br>46, 481                          | 0                                           | 0                                           | 0                      | 0                      | 0                       | 41                                      | 1                                | 0                                          |
| WEST SOUTH CENTRAL                            | 5 SI3                                       | 1                                           |                                             |                        | 1                      | 5                       | - 43                                    | 100                              |                                            |
| Arkansas:                                     | 1 1 10                                      | 18                                          |                                             |                        |                        | Poott.                  |                                         | 2                                | ,                                          |
| Fort Smith<br>Little Rock<br>Louisiana:       | 31, 643<br>74, 216                          | 3 0                                         | 0                                           | 0                      | 0                      | 0                       | 13                                      | 0                                | i                                          |
| New Orleans<br>Shreveport                     | 414, 493<br>57, 857                         | 1 2                                         | 7 0                                         | 17                     | 3 0                    | 0                       | 29<br>35                                | 0 7                              | 11 2                                       |
| Oklahoma:<br>Oklahoma City<br>Tulsa           | (1)<br>124, 478                             | 12<br>18                                    | 0                                           | 0                      | 10                     | 0                       | 0<br>162                                | 0<br>24                          | 3                                          |
| Texas:                                        | 15 (10)                                     | 6                                           | 8                                           | 8                      | 0                      | 0                       | 116                                     | 3                                | 3                                          |
| Dallas<br>Galvesten<br>Houston<br>San Antonio | 194, 450<br>48, 375<br>164, 954<br>198, 009 | 5 1                                         | 3 0                                         | 0                      | 0                      | 0 0                     | 7 1                                     | 0 0                              | 1 1 7                                      |
| MOUNTAIN                                      | 211-2-60                                    | 100                                         | 33                                          | 1                      | 1 3 5                  | 100                     |                                         | . 19                             |                                            |
| Montana:                                      | - 1                                         |                                             | 1                                           |                        | 1                      | CAL                     |                                         | 400                              |                                            |
| Billings<br>Great Falls<br>Helena             | 17, 971<br>29, 883<br>12, 037               | 5<br>6<br>1<br>0                            | 0 0 0                                       | 0                      | 0 0                    | 0 0                     | 5<br>6<br>0                             | 0 0                              | 1<br>0<br>1<br>0                           |
| MissoulaIdaho:                                | 12, 668                                     |                                             |                                             |                        |                        |                         | 1 13                                    |                                  |                                            |
| Boise<br>Colorado:<br>Denver                  | 23, 042<br>280, 911                         | 21                                          | 0                                           | 6                      | 0                      | 0                       | 76                                      | 4                                | 5                                          |
| Pueblo                                        | 43, 787                                     | 9                                           | 1                                           | 0                      | 0                      | 0                       | 81                                      | 0                                | 1                                          |
| New Mexico: Albuquerque Utah:                 | 21,000                                      | 1                                           | 1                                           | 1                      | 0                      | 0                       | 4                                       | 10                               | 2                                          |
| Salt Lake City<br>Nevada:                     | 130, 948                                    | 38                                          | 3                                           | 10                     | 0                      | -0                      | _13                                     | 1                                | 50.00                                      |
| Reno                                          | 12, 665                                     | 0                                           | 0                                           | 1                      | 0                      | . 0                     | 0                                       | 0                                | 0                                          |
| PACIFIC                                       | 2 10                                        | 1                                           | 1                                           |                        | 3800                   | 1                       |                                         | 100                              |                                            |
| Washington:                                   | m                                           | 90                                          | 8                                           | 2                      | 0                      | 'set'                   | 91                                      | . 18                             |                                            |
| SeattleSpokane                                | 108, 897<br>104, 455                        | 26<br>2<br>12                               | 2                                           | 0                      | 0                      | 0                       | 63                                      | 0                                | 4                                          |
| California:<br>Los Angeles<br>Sacramento      | (1)<br>72, 200                              | 52<br>6                                     | 37<br>2<br>19                               | 34<br>2<br>4           | 20                     | 2 0                     | 336<br>6                                | 12 2                             | 16<br>2<br>1                               |
| San Francisco                                 | 557, 530                                    | 64                                          | 19                                          | 4                      | 2                      | 4                       | 115                                     | 16                               | 1                                          |

<sup>&</sup>lt;sup>1</sup> No estimate made.

|                                                           | Scarle                                      | t fever              |                                             | Smallpo                | X 111                   | 100                                           | T                                           | phoid f                | ever                    |                                |                          |
|-----------------------------------------------------------|---------------------------------------------|----------------------|---------------------------------------------|------------------------|-------------------------|-----------------------------------------------|---------------------------------------------|------------------------|-------------------------|--------------------------------|--------------------------|
| Division, State,<br>and city                              | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-         | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Denths<br>re-<br>ported | Tuber-<br>culosis,<br>deaths<br>re-<br>ported | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Deaths<br>re-<br>ported | Whooping cough, cases reported | Death, all causes        |
| NEW ENGLAND                                               |                                             | 13.7                 |                                             | 31                     |                         | 1                                             |                                             |                        |                         |                                |                          |
| Maine:<br>Portland                                        | 3                                           | 0                    | 0                                           | 0                      | 0                       | 1                                             | 0                                           | 0                      | 0                       | 0                              |                          |
| New Hampshire:<br>Concord                                 | 0                                           | 1                    | 0                                           | 0                      | . 0                     | 1                                             | 0                                           | 0                      | 0                       | 0                              |                          |
| Manchester<br>Vermont:                                    | 2                                           | 2                    | 0                                           | 0                      | 0                       | 6                                             | 0                                           | 0                      | 0                       | 0                              | . 3                      |
| Barre<br>Massachusetts:                                   | 0                                           | 120                  | 0                                           | 0                      | 0                       | . 0                                           | 0                                           | 0                      | 0                       | 0                              |                          |
| BostonFall River                                          | 38                                          | 8                    | 0                                           | 0                      | 0                       | 8 5                                           | 1                                           | 0                      | 0                       | 8                              | 213<br>343               |
| Springfield<br>Worcester<br>Rhode Island:                 | 8                                           | 6                    | 0                                           | 0                      | 0                       | 3                                             | 0                                           | 0                      | 0                       | 1                              | 3                        |
| Pawtucket<br>Providence                                   | 1 9                                         | 1                    | 0                                           | 0                      | 0                       | 0                                             | 0                                           | 0                      | 0                       | 3                              | 12                       |
| Connecticut:<br>Bridgeport                                | 9                                           | . 9                  | 0                                           | 0                      | 0                       | 1                                             | 0                                           | 0                      | 0                       | 0                              | 27                       |
| Hartford<br>New Haven                                     | 7                                           | 10                   | 0                                           | 0                      | 0                       | 1                                             | 0                                           | 0                      | 0                       | 1 2                            | 60                       |
| MIDDLE ATLANTIC                                           |                                             | 3                    |                                             |                        |                         |                                               |                                             | 5                      |                         |                                |                          |
| New York: Buffalo New York Rochester Syracuse New Jersey: | 18<br>265<br>14<br>10                       | 23<br>832<br>14<br>2 | 0 0 0                                       | 0 0 0                  | 0 0 0                   | 11<br>1 102<br>2<br>2                         | 0<br>10<br>0<br>1                           | 1<br>15<br>0<br>0      | 0<br>1<br>0<br>0        | 7<br>95<br>1<br>7              | 146<br>1,536<br>88<br>51 |
| Camden<br>Newark<br>Trenton                               | 6<br>24<br>3                                | 4<br>46<br>3         | 0                                           | 0                      | 0                       | 1<br>7<br>10                                  | 0 0 1                                       | 0 2 0                  | 0                       | 0<br>41<br>0                   | 31<br>88<br>43           |
| Pennsylvania: Philadelphia Pittsburgh Reading             | 77<br>27<br>3                               | 131<br>38<br>4       | 1<br>0<br>0                                 | 0 0                    | 0 0                     | 39<br>12<br>2                                 | 1 0                                         | 2<br>0<br>0            | 0 0                     | 23<br>13<br>2                  | 485<br>213<br>29         |
| EAST NORTH CEN-                                           |                                             |                      |                                             |                        |                         |                                               | - 4                                         | 3.7                    | 7                       | boate                          |                          |
| Ohio:<br>Cincinnati                                       | 14                                          | 35                   | 2                                           | 1                      | 0                       | 9                                             |                                             | 0                      | 1                       | 10,00                          | 138                      |
| Cleveland<br>Columbus<br>Toledo<br>Indiana:               | 82<br>9<br>13                               | 43<br>9<br>11        | 0 2 4                                       | 0 1 1                  | 0                       | 14<br>5<br>6                                  | 1<br>0<br>0                                 | 0 0                    | 0                       | 28<br>9<br>20                  | 179<br>84<br>83          |
| Fort Wayne Indianapolis South Bend Terre Haute            | 4<br>9<br>3<br>3                            | 2<br>16<br>3<br>0    | 12<br>1<br>1                                | 2<br>27<br>0<br>0      | 0 0 0                   | 0<br>6<br>1<br>1                              | 1 1 0 0                                     | 1<br>0<br>0<br>0       | 0 0 0                   | 30<br>0<br>1                   | 29<br>113<br>12<br>11    |
| Chicago<br>Peoria<br>Springfield                          | 14<br>3<br>2                                | 108<br>3<br>4        | 0 0                                         | 0                      | 0                       | 61 1 0                                        | 3 0                                         | 3 0                    | 0 0                     | 78<br>0<br>0                   | 720<br>21<br>16          |
| Michigan: Detroit Flint Grand Rapids.                     | 80<br>5<br>7                                | 103<br>31<br>14      | 2 2 1                                       | 2 2 3                  | 0                       | 26<br>0<br>1                                  | 0 0                                         | 3 0                    | 0                       | 88<br>0<br>6                   | 305<br>28<br>30          |
| Wisconsin: Kenosha Madison                                | 2                                           | 10                   | 1                                           | 0                      | 0                       | 1                                             | 0                                           | 1                      | 0                       | 2                              | 10                       |
| Milwaukee<br>Racine<br>Superior                           | 24<br>4<br>2                                | 38 4 5               | 1 1 1 1                                     | 0                      | 0 0                     | 0 9 0 3                                       | 0 0                                         | 0 1 0 0                | 0 0 0                   | 30<br>18<br>0                  | 133<br>13<br>11          |
| WEST NORTH CEN-                                           |                                             |                      | 3                                           |                        | N                       |                                               |                                             |                        | 37                      | 3                              | THEOT                    |
| Minnesota: Duluth Minneapolis St. Paul                    | 4<br>37<br>23                               | 10<br>44<br>17       | 1 7                                         | 0                      | 0                       | 4 1 3                                         | 1 0                                         | 0                      | 0                       | 1 1 16                         | 21<br>89<br>54           |

|                                   | Searle                                      | et fever     |                                             | Smallpo | OT .                    | 1      | T              | yphoid s | lever |                                              | 1                        |
|-----------------------------------|---------------------------------------------|--------------|---------------------------------------------|---------|-------------------------|--------|----------------|----------|-------|----------------------------------------------|--------------------------|
| Division, 8 ate,<br>and eity      | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re- | Cases,<br>esti-<br>mated<br>expect-<br>ancy | re-     | Deaths<br>re-<br>perted | deaths | esti-<br>mated |          | re-   | Whooping<br>cough,<br>cases<br>re-<br>ported | Deaths,<br>all<br>causes |
| WEST NORTH CEN-<br>TRAL—continued |                                             |              |                                             |         |                         |        | -11            |          |       | X43 4                                        | 2.87                     |
| Iowa:                             |                                             | 1            |                                             | 1       | 37.1                    |        |                |          |       | 1.00                                         | 1                        |
| Davenport<br>Des Moines           | 7                                           | 0 3          | 3 2                                         | 0       |                         |        | 0              | 0        |       | 1 0                                          | 30                       |
| Sioux City                        | 2                                           | 3            | 1                                           | 1 2     |                         |        | 0              | 0        |       | . 5                                          |                          |
| Waterloo                          | 1                                           | 0            | Ô                                           | ő       |                         |        | 0              | 0        |       | 3                                            |                          |
| Missouri:<br>Kansas City          | 9                                           | 21           | 1                                           | 2       | 1 0                     |        |                |          | 0     |                                              | -                        |
| St. Joseph                        | 2                                           | 4            | 1                                           | 3 5     | 0                       | 1      | 0              | 0        | 0     | 23                                           | 80 32                    |
| St. Louis                         | 31                                          | 25           | 1                                           | 4       | 0                       | 13     | 1              | 1        | 0     | 41                                           | 199                      |
| North Dakota:                     | 9                                           | 0            |                                             |         |                         |        |                |          |       | 10000                                        |                          |
| Grand Forks                       | 2                                           | 2 7          | 0                                           | 1 0     | 0                       | 0      | 0              | 0        | 0     | 0                                            |                          |
| South Dakota:                     |                                             | 1            | 1                                           | 1       |                         |        |                |          |       | 127.40                                       |                          |
| Aberdeen                          | 3                                           | 0            | 0                                           | 0       |                         |        | 0              | . 0      |       | 0                                            |                          |
| Sioux Falls<br>Nebraska:          | 1                                           | 8            | -1                                          | 0       |                         |        | 0              | . 0      |       | 0                                            |                          |
| Lincoln                           | 1 3                                         | 0            | 1                                           | 0       | 0                       | 0      | 0              | 0        | 0     | 0                                            | 16                       |
| Omaha                             | 3                                           | 9            | 8                                           | i       | 0                       | 2      | 0              | 0        | 0     | 2                                            | 85                       |
| Kansas;<br>Topeka                 | 3                                           | 1            | 1                                           | 1       |                         | 0      | 0              | 0        | 0     |                                              | 9                        |
| Wichita                           | 2                                           | 1            | 2                                           | 0       | 0                       | 0      | 0              | 0        | 0     | 5 8                                          | 27                       |
| SOUTH ATLANTIC                    |                                             |              |                                             |         |                         |        |                |          |       |                                              | 100                      |
| Delaware:                         | 1                                           | 1 1          | 1                                           | 1 1     | 1                       | 1 1    | 1 1            | 1        |       | @ t ]                                        | 14                       |
| Wilmington                        | 4                                           | 4            | 0                                           | 0       | 0                       | 0      | 1              | 0        | 0     | - 2                                          | 27                       |
| Maryland:                         |                                             |              |                                             |         |                         |        |                |          |       |                                              | 1                        |
| Baltimore                         | 34                                          | 27           | 1                                           | 0       | 0                       | 15     | 2              | 0        | 0     | 41                                           | 242                      |
| Cumberland<br>Frederick           | 0                                           | 0            | 0                                           | 0       | 0                       | 0      | 0              | 0        | 0     | 0                                            | 8 7                      |
| District of Col.:                 |                                             |              |                                             |         |                         |        |                |          |       | E 13.                                        | 100                      |
| Washington                        | 23                                          | 24           | 1                                           | 0       | 0                       | 16     | 1              | 1        | 0     | 14                                           | 159                      |
| Virginia:<br>Lynchburg            | 0                                           |              |                                             | 0       |                         |        |                |          |       | 1                                            |                          |
| Norfolk                           |                                             | 0            | 0                                           | 0       | 0                       | 0      | 0              | 0        | 0     | 9                                            | 14                       |
| Richmond                          | 3 0                                         | 4            | 1                                           | 9 7     | 0                       | 4      | 0              | 0 2      | 0     | . 1                                          | 81                       |
| Roanoke                           | 0                                           | 0            | i                                           | 7       | 0                       | 0      | ő              | ō        | ő     | 2                                            | 15                       |
| West Virginia:<br>Charleston      | 1                                           | 1            | 0                                           |         | 44.1                    |        |                |          |       |                                              | 14                       |
| Wheeling                          | 1 2                                         | 1            | 0                                           | 0       | 0                       | 0 1    | 0              | 0        | 1 0   | 9                                            | 14 20                    |
| North Carolina:                   |                                             |              |                                             |         |                         | 1      |                |          |       | 114/02                                       | 1                        |
| Raleigh                           | 0                                           | 3            | 0                                           | 0       | 0                       | 3      | 0              | 0        | 0     | 17                                           | 15                       |
| Wilmington Winston-Salem          | 0                                           | 0            | 0                                           | 0 5     | 0                       | 0      | 1              | 0        | 0     | 60                                           | 16                       |
| South Carolina:                   |                                             |              |                                             |         |                         |        |                |          | -     | (Course)                                     | Col.                     |
| Charleston                        | 0                                           | 0            | 0                                           | 0       | 0                       | 3      | 0              | 3        | 0     | . 0                                          | 24                       |
| Columbia<br>Greenville            | 0                                           | 0            | 1                                           | 0       |                         | 1      | 0              | 0        |       | 17                                           | 11                       |
| Georgia:                          |                                             |              | 0                                           | 0       | 0                       | 0      | 0              | 0        | 0     | 0                                            |                          |
| Atlania                           | 3                                           | 4            |                                             | 2       | 0                       | 4      | 0              | 1        | 1     | 25                                           | 18                       |
| Brunswick                         | 0                                           | 0            | 0                                           | 1       | 0                       | 0 2    | 0              | 0        | . 0   | 1                                            | 3                        |
| Savannah<br>Florida:              | 0                                           | 0            | 1                                           | 5       | 0                       | 2      | 0              | 2        | 0     | 1                                            | -                        |
| Miami                             | 1                                           | 0            |                                             | 1       | 0                       | 0      | 1              | 1        | 0     | 7                                            | 38                       |
| St. Petersburg.                   | 0                                           |              | 0                                           |         | 0                       | 0      | 0              |          | 0 .   | March 1 Con                                  | 13                       |
| Tampa                             | 0                                           | 1            | 0                                           | 0       | 0                       |        | 1              | i        | 0     | 2                                            | 30                       |
| RAST SOUTH CEN-                   |                                             |              |                                             |         |                         |        |                |          |       | Section 2                                    |                          |
| Kentucky:                         | 1                                           | . 1          | 1                                           | 1       |                         | 100    |                |          |       | 4.5                                          | 10-14 11                 |
| Covington                         | . 1                                         | 1            | 0                                           | 0       | 0                       | 0      | 0              | 0        | 0     | 0                                            | 18                       |
| Louisville                        | 6                                           | 18           | 0                                           | 0       | 0                       | 0      | 1              | 0        | 0     | 14                                           | 85                       |
| Tennessee:                        |                                             |              |                                             |         |                         | 67     |                |          | - 11  | 21                                           | 64                       |
| Memphis<br>Nashville              | 4 2                                         | 14           | 3                                           | 4       | 0                       | 8      | 1 0            | 2        | - 0   | 7 8                                          | 40                       |
| Alabama:                          | - 1                                         |              |                                             |         |                         | 1      | -              |          |       | 2300                                         | myst I                   |
| Birmingham                        | 0 0                                         | 1 0          | 8 1                                         | 5 0     | 0                       | 3 4    | 1 1            | 0        | 0 1 0 | 0 3                                          | 59<br>25                 |
| Mobile                            | 75.0                                        |              |                                             |         |                         |        |                | -        | 4     | The same of                                  | -                        |

|                                                      | Scarlet                                     | fever                  | 1                                           | Smallpe                | X                       | 3113                                          | Ty               | phoid f                | ever                              | Whoop-                                  |                         |
|------------------------------------------------------|---------------------------------------------|------------------------|---------------------------------------------|------------------------|-------------------------|-----------------------------------------------|------------------|------------------------|-----------------------------------|-----------------------------------------|-------------------------|
| Division, State,<br>and city                         | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases<br>re-<br>ported | Deaths<br>re-<br>ported | Tuber-<br>culosis,<br>deaths<br>re-<br>ported | mated            | Cases<br>re-<br>ported | Deaths<br>re-<br>ported           | ing<br>cough,<br>cases<br>re-<br>ported | Deaths<br>all<br>causes |
| WEST SOUTH CEN-                                      |                                             |                        |                                             |                        |                         |                                               |                  |                        |                                   |                                         |                         |
| Arkansas: Fort Smith Little Rock                     | 0                                           | 0                      | 0                                           | 0                      | 0                       | 1                                             | 0                | 2 3                    | 1 0                               | 4 0                                     |                         |
| Louisiana:<br>New Orleans<br>Shreveport<br>Oklahoma: | 0                                           | 5 0                    | 2                                           | 0                      | 0                       | 9                                             | 2                | 1 0                    | 0                                 | 9                                       | 15                      |
| Oklahoma City<br>Tulsa<br>Texas:                     | 1.                                          | 0                      | 3 2                                         | 0 2                    | 0                       | 0                                             | 0                | 0                      | 0                                 | 0                                       | 2                       |
| Dallas                                               | 2<br>0<br>1<br>1                            | 4<br>0<br>3<br>2       | 4<br>1<br>0<br>0                            | 4<br>0<br>4<br>0       | 0<br>0<br>0<br>0        | 5<br>1<br>3<br>10                             | 0<br>1<br>0<br>0 | 0<br>2<br>1<br>0       | 0<br>0<br>0<br>1                  | 3<br>0<br>4<br>0                        | 4:<br>1:<br>3:<br>7:    |
| MOUNTAIN                                             | q                                           | -                      | 1                                           | 11                     |                         | MA                                            |                  |                        |                                   | 714                                     | 13 h                    |
| Montana: Billings Great Falls Helena Missoula Idaho: | 1<br>1<br>0<br>0                            | 2<br>2<br>0<br>6       | 1<br>1<br>0<br>1                            | 0 0 1 0                | 0<br>0<br>0<br>0        | 0 0 0                                         | 0 0 0            | 0<br>1<br>0<br>0       | 0 0 0                             | 0 0 0                                   |                         |
| Boise<br>Colorado:                                   | 1                                           | 0                      | 1                                           | 0                      | 0                       | 0                                             | 0                | 0                      | 0                                 | 0                                       |                         |
| Pueblo<br>New Mexico:                                | 12                                          | 25                     | 0                                           | 0                      | 0                       | 8 3                                           | 0                | 0                      | 0                                 | 7                                       | 18                      |
| Albuquerque                                          | 1 2                                         | 0 13                   | 0                                           | 3                      | 0                       | 5                                             | 0                | 0                      | 0                                 | 17                                      | 34                      |
| Salt Lake City.<br>Nevada:<br>Reno                   | 0                                           | 0                      | 1                                           | 0                      | 0                       | 0                                             | 0                | 0                      | 0                                 | 0                                       | 2                       |
| PACIFIC                                              |                                             |                        |                                             |                        |                         | - 10                                          |                  | 10.00                  | 1 111                             | ix quin                                 | 1                       |
| Washington: Seattle Spokane Tacoma California:       | 9 4 3                                       | 3<br>18<br>7           | 4<br>5<br>3                                 | 1<br>13<br>9           | 0                       | 2                                             | 0<br>1<br>0      | 0 0                    | 0                                 | 28<br>6<br>2                            | 28                      |
| Los Angeles<br>Sacramento<br>San Francisco.          | 21<br>2<br>13                               | 31<br>0<br>22          | 6 1                                         | 5 0                    | 0                       | 26<br>2<br>14                                 | 1<br>0<br>1      | 0 0 1                  | 0                                 | 25<br>1<br>56                           | 241<br>138              |
|                                                      |                                             |                        | Cere                                        | brospin<br>ningitis    | al Let                  | hargie<br>phalitis                            | Pe               | llagra                 | Po (infar                         | oliomyel<br>ntile para                  | itis<br>alysis)         |
| Division, Stat                                       | e, and c                                    | ity                    | 4                                           | 1                      | 1 100                   | . 1                                           | 113              | . 1 .                  | Cases,                            | 0744                                    |                         |
|                                                      |                                             |                        | Case                                        | Death                  | Cases                   | Deaths                                        | Cases            | Deaths                 | esti-<br>mated<br>expect-<br>ancy | Cases                                   | Deaths                  |
| NEW ENG                                              | LAND                                        | 100                    | 13                                          | 19                     | Q) .                    | 11                                            |                  | 7                      | 1                                 |                                         | 3.                      |
| Massachusetts:<br>Boston                             |                                             |                        | . 0                                         | -                      | 1 0                     | 0                                             | 0                | 0                      | 1                                 | 1                                       | . 0                     |
| MIDDLE AT                                            | LANTIC                                      |                        | AL.                                         |                        |                         |                                               |                  |                        |                                   | 16                                      | int<br>posts            |
| New York:<br>New York                                |                                             |                        | 7                                           | Vi 154                 | 5 13                    | 4                                             | 0                | 0                      | 1                                 | 0                                       | 1                       |
| New Jersey:<br>Camden<br>Newark                      |                                             | 2                      | 0                                           |                        | 1 1                     | 1 1                                           | 0                | 0                      | 0                                 | 0 0                                     | 0                       |
| Pennsylvania: Philadelphia Pittsburgh Reading        | 2011                                        |                        | 0                                           | 7 173                  | 1 0                     | 2 0                                           | 0                | 0 0                    | 0 0                               | 0                                       | 0 0                     |

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| Sections.                             | Cereb   | orospinal<br>ningitis | Let   | hargie<br>phalitis | Pe    | llagra |                                             | liomyel<br>tile par |         |
|---------------------------------------|---------|-----------------------|-------|--------------------|-------|--------|---------------------------------------------|---------------------|---------|
| Division, State, and city             | Cases   | Deaths                | Casen | Deaths             | Cases | Deaths | Cases,<br>esti-<br>mated<br>expect-<br>ancy | Cases               | Death   |
|                                       |         |                       | 1     |                    |       |        |                                             | -                   |         |
| EAST NORTH CENTRAL                    |         | 10                    | 1     |                    |       | Male   |                                             |                     |         |
| Ohio:                                 |         | 1                     | . 0   | 150                |       | 10     |                                             | Top 1               |         |
| Cleveland<br>Illinois:                |         | 0                     | 1     | 0                  | 0     | 0      | 0                                           | 0                   |         |
| Chicago                               | 7       | 3                     | 2     | 0                  | 0     | 0      | - 1                                         | 0                   | (       |
| Detroit                               | 1       | 1                     | 0     | 1                  | 0     | 0      | 0                                           | 0                   | -       |
| Wiconsin: Milwaukee                   | 2       | 2                     | 0     | 0                  | 0     | 0      | 0                                           | 0                   |         |
| WEST NORTH CENTRAL                    | 11      | 10                    |       | 1                  |       |        | 200                                         |                     | 55      |
| Minnesota:                            | 1       | 15-                   | 200   | 100                | 118   | 19     |                                             |                     | 130     |
| St. Paul                              | 0       | 0                     | 0     | 0                  | 0     | 0      | 0                                           | 1                   |         |
| Missouri:<br>Kansas City              | 1       | 1                     | 0     | 0                  | 0     | 0      | 0                                           | 0                   | 1       |
| SOUTH ATLANTIC                        | 98      |                       | 10    | 200                |       |        | 13                                          |                     |         |
| South Carolina:                       | 1       |                       | - 0   |                    | 116   | 4.7    | * 0                                         | 100                 |         |
| Charleston 1                          | 0       | 0                     | 0     | 0                  | 3     | 0      | 0                                           | 0                   | (       |
| Atlanta                               | 0       | 0                     | 0     | 0                  | 1     | 0      | 0                                           | 0                   |         |
| EAST SOUTH CENTRAL                    | 1       |                       |       | 1.5                |       | HO     |                                             |                     | and the |
| Kentucky:                             | 13      |                       | 10    | 120                |       | 8.     | 300                                         |                     | 0       |
| Louisville<br>Tennessee:              | 1       | 0                     | 0     | 0                  | 0     | 0      | 0                                           | 0                   |         |
| Nashville                             | 0       | 0                     | 0     | 0                  | 1     | 1      | 0                                           | 0                   | . (     |
| Alabama:<br>Birmingham                | 0       | 0                     | 0     | 0                  | 1     | 1      | 0                                           | 0                   |         |
| Mobile                                | 0       | 0                     | 0     | 0                  | 0     | 1      | 0                                           | 0                   |         |
| WEST SOUTH CENTRAL                    |         | 100                   |       | 1                  |       |        |                                             | MAG                 |         |
| Louisiana:<br>New Orleans             |         |                       |       | 0                  | 1     | 1      |                                             | 1                   | 10.11   |
| Texas:                                | 0       | . 0                   | 0     | 15159              | 0.153 | 9.7    | 0                                           | - Willy             |         |
| Dallas                                | 0       | 1 0                   | 0     | 0                  | 1 0   | . 0    | 0                                           | 0                   | 0       |
| San Antonio                           | 0       | 0                     | 0     | 0                  | . 6   | .1     | 0                                           | 0                   | 0       |
| MOUNTAIN                              | 10.00   | 0                     | 13    | 19                 |       | 21     | 300                                         | hank!               | 47      |
| Montana:                              | 1119    |                       |       | 19.3               | - 1   |        |                                             | 3                   |         |
| BillingsColorado:                     | 1       | 0                     | 0     | 0                  | 0     | 0      | 0                                           | 0                   |         |
| Denver                                | 1       | 1                     | 0     | 0                  | 0     | 0      | 0                                           | 0                   | 0       |
| Salt Lake City                        | 0       | 1                     | 0     | 0                  | 0     | 0      | . 0                                         | 0                   | 0       |
| PACIFIC                               | Latina. | -                     | 1-0   | -362               |       |        |                                             |                     |         |
| Washington:                           |         |                       |       | 0.00               |       |        |                                             |                     |         |
| Washington:<br>Seattle<br>California: | 1       |                       | 0     | *******            | 0     |        | 0                                           | 0                   |         |
| Sacramento                            | 1       | 3                     | 0     | 0                  | 0     | 0      | 0                                           | 0 2                 | 0       |
| San Francisco                         | 0       | 0                     | 0     | 0                  | 0     |        | 0                                           | 2                   | -       |

Dengue: 1 case at Charleston, 8. C.

The following table gives the rates per 100,000 population for 101 cities for the five-week period ended May 7, 1927, compared with those for a like period ended May 8, 1926. The population figures used in computing the rates are approximate estimates as of July 1, 1926 and 1927, respectively, authoritative figures for many of the

cities not being available. The 101 cities reporting cases had estimated aggregate populations of approximately 30,440,000 in 1926 and 30,960,000 in 1927. The 95 cities reporting deaths had nearly 29,780,000 estimated population in 1926 and nearly 30,290,000 in 1927. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, April 3 to May 7, 1927—Annual rates per 100,000 population, compared with rates for the corresponding period of

| 1000                                  |                     | DIPHT              | THERL               | A CASI              | E RAT         | ES               |                   |                     |                   |                   |
|---------------------------------------|---------------------|--------------------|---------------------|---------------------|---------------|------------------|-------------------|---------------------|-------------------|-------------------|
|                                       | i                   |                    |                     | 2                   | Week          | ended-           |                   |                     | L and             | 2"                |
|                                       | Apr.<br>10,<br>1926 | Apr.<br>9,<br>1927 | Apr.<br>17,<br>1926 | Apr.<br>16,<br>1927 | Apr. 24, 1926 | Apr. 23, 1927    | May<br>1,<br>1926 | Apr.<br>30,<br>1927 | May<br>8,<br>1926 | May<br>7,<br>1927 |
| 101 cities                            | 116                 | 2 202              | 110                 | * 175               | 118           | 180              | 110               | 171                 | 115               | 183               |
| New England                           | 125                 | 181                | 47                  | 104                 | 73            | 135              | 83                | 95                  | 106               | 130               |
| Middle Atlantie                       |                     | 269                | 119                 | 271                 | 162           | 270              | 114               | 243                 | 126               | 273               |
| East North Central                    | 88                  | 3 170              | 86                  | 3 136               | 87            | 132              | 98                | 138                 | 89                | 160               |
| West North Central                    | 204                 | 171                | 246                 | 109                 | 182           | 141              | 204               | 159                 | 198               | 131               |
| South Atlantic                        | 86                  | 4 126              | 89                  | 141                 | 67            | 136              | 67                | 105                 | 75                | 120               |
| East South Central                    | 114                 | 66                 | 47                  | 87                  | 26            | 31               | 72                | 76                  | 62                | 76                |
| West South Central                    | 60                  | 340<br>171         | 30<br>191           | 143                 | 47<br>82      | 126<br>189       | 56<br>118         | 180                 | 146               | 143<br>153        |
| MountainPacific                       | 118<br>137          | 126                | 134                 | 115                 | 145           | 157              | 153               | 188                 | 177               | 110               |
| income and the                        | 17-                 | MEA                | SLES                | CASE                | RATES         |                  | 13.               | 1                   | 7 3               |                   |
| 101 cities                            | 1, 781              | 2 864              | 1,770               | 3 762               | 1,792         | 785              | 1,708             | 640                 | 1,713             | 699               |
|                                       |                     |                    | 4 000               |                     |               |                  |                   | -                   |                   |                   |
| New England                           | 1,568               | 269                | 1,809               | 223                 | 1,663         | 295              | 1, 526            | 323                 | 1,710             | 269               |
| Middle Atlantic                       | 1,773               | 159                | 1,702               | 173                 | 1,596         | 146              | 1, 420<br>1, 488  | 231<br>638          | 1, 432<br>1, 456  | 213               |
| East North Central West North Central | 1, 572<br>3, 283    | 3 920<br>1, 304    | 1, 471<br>3, 354    | 3 861<br>1, 318     | 1, 459        | 778<br>1,556     | 4, 060            | 1, 229              | 4, 511            | 568<br>1, 527     |
| South Atlantic                        | 2 630               | 1,003              | 2, 319              | 1,317               | 2, 516        | 1,596            | 2, 507            | 1, 022              | 1, 926            | 1, 583            |
| East South Central                    | 2, 630<br>3, 020    | 611                | 2,772               | 397                 | 3, 434        | 520              | 2,875             | 377                 | 3, 237            | 4 520             |
| West South Central                    | 236                 | 2, 143             | 133                 | 1, 019              | 163           | 1.267            | 159               | 935                 | 125               | 889               |
| Mountain.                             | 419                 | 2 796              | 529                 | 2, 086              | 1, 075        | 1, 267<br>1, 798 | 866               | 1, 546              | -884              | 1, 636            |
| Pacific                               | 388                 | 2, 796<br>3, 058   | 372                 | 2, 212              | 501           | 2, 107           | 664               | 1, 532              | 656               | 1,605             |
|                                       | sc                  | ARLET              | r FEV               | ER CA               | SE RA         | TES -            |                   |                     | 90.00             |                   |
| 101 cities                            | 274                 | 2 397              | 307                 | 1 391               | 284           | 363              | 292               | 338                 | 294               | . 360             |
| New England                           | 318                 | - 362              | 373                 | 423                 | 222           | 346              | 281               | 402                 | 222               | 392               |
| Middle Atlantic                       | 176                 | 595                | 187                 | 583                 | 201           | 529              | 221               | 448                 | 217               | 541               |
| Middle Atlantic. East North Central   | 330                 | 1 272              | 343                 | 1 280               | 288           | 296              | 290               | 282                 | 310               | 283               |
| West North Central                    | 845                 | 435                | 910                 | 397                 | 899           | 343              | 879               | 334                 | 940               | 272               |
| South Atlantic                        | 145                 | 4 189              | 181                 | 150                 | 158           | 161              | 216               | 194                 | 175               | 129               |
| East South Central                    | 165                 | 178                | 150                 | 219                 | 228           | 168              | 171               | 194                 | 186               | 183               |
| West South Central                    | 116                 | 101                | 133                 | 50                  | 172           | 42               | 146               | 34                  | 176               | 59                |
| Mountain                              | 100                 | 944                | 173                 | 963                 | 210           | 935              | 219               | 953                 | 137               | 1, 007            |
| Pacific                               | 155                 | 243                | 338                 | 243                 | 260           | 209              | 204               | 199                 | 206               | 212               |
| and distribute out                    | aber                | SMAL               | LPOX                | CASE                | RATE          | 3                |                   | Silver,             |                   |                   |
| 101 cities                            | 32                  | 1 27               | 26                  | 1 24                | 31            | 33               | 26                | 21                  | -26               | 22                |
| New England                           | 0                   | 0                  | 0                   | 0                   | 0             | 0                | 0                 | 0                   | 0                 | 0                 |
| Middle Atlantic                       | 0                   | . 0                | 0                   | 0                   | 0             | 0                | 0                 | 0                   | 0                 | . 0               |
| East North Central                    | 18                  | 3 37               | 14                  | 3 32                | 22            | 29               | 19                | 33                  | 22                | 28<br>34          |
| West North Central                    | 50                  | 42                 | 42                  | 56                  | 44            | 40               | 30                | 38                  | 58                | 34                |
| South Atlantie                        | 67                  | 4 27               | 43                  | 27                  | 47            | 65               | 28                | 20                  | 30                | 36                |
| East South Central                    | 88                  | 87                 | 52                  | 97                  | 98            | 163              | 98                | 66                  | 72                | 56                |
| West South Central                    | 133                 | 105                | 95                  | 88                  | 112           | 96               | 146               | 25                  | 159               | 34                |
| Mountain                              | 137                 | 27<br>55           | 137                 | 27<br>26            | 139           | 54               | 36<br>102         | 65                  | 36<br>56          | 36<br>73          |
|                                       | 101                 | 90                 | 131                 | 20                  | 199           | 91               | 102               | 00                  | 30                | 13                |

<sup>&</sup>lt;sup>1</sup> The figures given in this table are rates per 100,000 population, annual basis, and not the number of esses reported. Populations used are estimated as of July 1, 1925 and 1927, respectively.

<sup>1</sup> Madison, Wis., and Norfolk, Va., not included.

<sup>2</sup> Madison, Wis., not included.

<sup>3</sup> Norfolk, Va., not included.

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Summary of weekly reports from cities, April 3 to May 7, 1927—Annual rates per 100,000 population, compared with rates for the corresponding period of 1926—Continued

TYPHOID FEVER CASE RATES

| formall safring                                                                                                                                  | rum                                                         |                                                                 | art                                                         | ball,                                                       | Week                                                       | nded-                                                     |                                                            |                                                            |                                                           |                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|
| entite of                                                                                                                                        | Apr.<br>10,<br>1926                                         | Apr.<br>9,<br>1927                                              | Apr.<br>17,<br>1926                                         | Apr.<br>16,<br>1927                                         | Apr. 24, 1926                                              | Apr.<br>23,<br>1927                                       | May<br>1,<br>1926                                          | Apr.<br>30,<br>1927                                        | May<br>8,<br>1926                                         | May<br>7,<br>1927                                        |
| 101 cities                                                                                                                                       | 7                                                           | 18                                                              | . 7                                                         | 38                                                          | 8                                                          | 7                                                         | 9                                                          | 8                                                          | 8                                                         |                                                          |
| New England. Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. Mountain. Pacific. | 5<br>3<br>10<br>6                                           | 7<br>6<br>35<br>2<br>410<br>36<br>38<br>0<br>8                  | 9<br>7<br>2<br>4<br>4<br>0<br>34<br>9                       | 9<br>5<br>11<br>12<br>13<br>36<br>17<br>9<br>18             | 5<br>8<br>1<br>6<br>7<br>26<br>26<br>0<br>21               | 0<br>7<br>3<br>4<br>11<br>31<br>13<br>27                  | 5<br>6<br>4<br>6<br>19<br>21<br>17<br>18<br>27             | 5<br>5<br>6<br>4<br>16<br>31<br>13<br>9                    | 9<br>7<br>4<br>6<br>13<br>16<br>17<br>0                   | 11 12 38 11                                              |
|                                                                                                                                                  |                                                             | NFLUE                                                           | 0.513                                                       |                                                             |                                                            |                                                           | 1                                                          |                                                            | 1                                                         | 1.5                                                      |
| 95 cities                                                                                                                                        | 74                                                          | 1 23                                                            | 53                                                          | 1 22                                                        | 38                                                         | 18                                                        | 33                                                         | 18                                                         | 25                                                        | 18                                                       |
| New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific          | 83<br>76<br>81<br>32<br>59<br>238<br>66<br>46<br>14         | 7<br>26<br>10<br>17<br>41<br>71<br>52<br>36<br>17               | 52<br>59<br>67<br>23<br>43<br>47<br>53<br>46<br>21          | 16<br>21<br>311<br>12<br>39<br>87<br>43<br>18<br>14         | 40<br>34<br>42<br>32<br>30<br>103<br>62<br>46<br>4         | 12<br>20<br>11<br>21<br>22<br>56<br>31<br>0<br>10         | 35<br>27<br>46<br>17<br>28<br>98<br>26<br>9                | 7<br>21<br>10<br>12<br>29<br>36<br>47<br>9<br>21           | 14<br>22<br>29<br>13<br>19<br>98<br>44<br>18<br>4         | 12<br>3<br>3<br>4<br>17<br>41<br>13<br>5<br>21           |
| The section                                                                                                                                      | P                                                           | NEUM                                                            | ONIA                                                        | DEAT                                                        | H RAT                                                      | ES                                                        |                                                            |                                                            | Lin.                                                      |                                                          |
| 95 cities                                                                                                                                        | 277                                                         | 1 163                                                           | 241                                                         | * 154                                                       | 201                                                        | 159                                                       | 177                                                        | 144                                                        | 163                                                       | 131                                                      |
| New England                                                                                                                                      | 358<br>339<br>245<br>186<br>236<br>429<br>159<br>137<br>148 | 139<br>190<br>3 132<br>137<br>4 159<br>209<br>142<br>243<br>117 | 302<br>288<br>233<br>133<br>208<br>331<br>181<br>155<br>117 | 156<br>176<br>1142<br>129<br>188<br>132<br>78<br>153<br>117 | 233<br>240<br>192<br>137<br>206<br>229<br>128<br>109<br>71 | 151<br>190<br>135<br>125<br>180<br>153<br>78<br>162<br>97 | 210<br>219<br>152<br>108<br>178<br>233<br>150<br>118<br>74 | 183<br>169<br>128<br>56<br>156<br>127<br>125<br>189<br>117 | 170<br>175<br>178<br>122<br>170<br>222<br>110<br>82<br>78 | 130<br>167<br>122<br>60<br>114<br>143<br>112<br>90<br>79 |

Madison, Wis., and Norfolk, Va., not included.
 Madison, Wis., not included.
 Norfolk, Va., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1926 and 1927, respectively

| Group of cities | Number<br>of cities<br>reporting               | Number<br>of cities<br>reporting     | of cities<br>cases                                                                                                                |                                                                                                                    | Aggregate<br>of cities<br>deaths                                                                                                  | population<br>reporting                                                                                                           |
|-----------------|------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
|                 | cases                                          | deaths                               | 1926                                                                                                                              | 1927                                                                                                               | 1926                                                                                                                              | 1927                                                                                                                              |
| Total           | 101                                            | 95                                   | 30, 438, 600                                                                                                                      | 30, 960, 600                                                                                                       | 29, 778, 400                                                                                                                      | 30, 289, 800                                                                                                                      |
| New England     | 12<br>10<br>16<br>12<br>21<br>7<br>8<br>9<br>6 | 12<br>10<br>16<br>10<br>20<br>7<br>7 | 2, 211, 000<br>10, 457, 000<br>7, 644, 900<br>2, 585, 500<br>2, 799, 500<br>1, 208, 300<br>1, 213, 800<br>572, 100<br>1, 946, 400 | 2, 245, 900<br>10, 567, 000<br>7, 804, 500<br>2, 626, 000<br>1, 023, 500<br>1, 243, 300<br>580, 000<br>1, 991, 700 | 2, 211, 000<br>10, 457, 000<br>7, 644, 900<br>2, 470, 000<br>2, 757, 700<br>1, 008, 300<br>1, 181, 500<br>572, 100<br>1, 475, 300 | 2, 245, 900<br>10, 567, 000<br>7, 804, 500<br>2, 510, 000<br>2, 835, 700<br>1, 023, 500<br>1, 210, 400<br>580, 000<br>1, 512, 800 |

# FOREIGN AND INSULAR

bill.

### THE FAR EAST

Report for week ended April 23, 1927.—The following report for the week ended April 23, 1927, was transmitted by the Eastern Bureau of the Health Section of the Secretariat of the League of Nations, located at Singapore, to the headquarters at Geneva:

| Name 2 saft                                                                                     | Plague Cholera Small-<br>pox |                                       | Table 1 | Plague                                 |                           | Cholera                        |                                                                                                | Small-<br>pox |        |                    |                         |                        |         |
|-------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|---------|----------------------------------------|---------------------------|--------------------------------|------------------------------------------------------------------------------------------------|---------------|--------|--------------------|-------------------------|------------------------|---------|
| Maritime towns                                                                                  | Cases                        | Deaths                                | Cases   | Deaths                                 | Cases                     | Deaths                         | Maritime towns                                                                                 | Cases         | Deaths | Cases              | Deaths                  | Cases                  | Deaths  |
| Ceylon: Colombo British India: Bombay Calcutta Rangoon Bassein Madras Vizagapatam Siam: Bangkok | 2                            | 2<br>13<br>0<br>1<br>6<br>0<br>0<br>0 | 0       | 0<br>1<br>137<br>3<br>6<br>0<br>0<br>6 | 80<br>191<br>50<br>6<br>1 | 36<br>133<br>15<br>0<br>1<br>1 | French Indo-China: Saigon and Cholon Haiphong. China: Canton Macao. Hong Kong Kwantung: Dairen | 0 0 0 0 0 0   | 00000  | 26<br>80<br>0<br>0 | 22<br>50<br>0<br>0<br>0 | 0<br>0<br>32<br>5<br>1 | 1 2 3 0 |

Telegraphic reports from the following maritime towns indicated that no case of plague, cholera, or smallpox was reported during the week:

#### ASTA

Arabia.-Jeddah, Perim, Aden.

Iraq.-Basra.

7

9

18

13

41

21

131

139 167 122

114

OT

ion

Persia.-Mohammerah, Bender-Abbas, Bushire, Lingah.

British India.-Karachi, Chittagong, Cochin, Negapatam, Tuticorin, Moulmein.

Portuguese India .- Nova Goa.

Federated Malay States .- Port Swettenham.

Straits Settlements .- Penang, Singapore.

Dutch East Indies .- Batavia, Sabang, Belawan-Deli, Pontianak, Semarang, Menado, Banjermasin, Cheribon, Palembang, Makassar, Balikpapan, Tarakan, Samarinda, Surabaya, Padang.

Sarawak.-Kuching.

British North Borneo.-Sandakan, Jesselton, Kudat, Tawao.

Portuguese Timor .- Dilly.

French Indo-China .- Tourane.

Philippine Islands.-Manila, Ilollo, Jolo, Cebu, Zambeanga.

Ching.-Amey, Tientsin, Shanghai.

Formosa.-Keelung, Takao.

Chosen.-Chemulpo, Fusan.

Manchuria.-Yingkow, Antung, Changebun, Harbin, Mukden.

Kwantung .- Port Arthur.

Jepen.-Yokohama, Nagasaki, Niigata, Shimonoseki, Moji, Tsuruga, Kobe, Osaka, Hakodate.

#### AUSTRALASIA AND OCEANIA

Australia.—Adelaide, Melbourne, Sydney, Bris-bane, Rockhampton, Townsville, Port Darwin, Broome, Fremantle, Carnarvon, Thursday Island,

Cairns. New Guinea .- Port Moresby.

New Britain Mandated Territory .- Rabaul and Kokopo.

New Zealand .- Auckland, Wellington, Christchurch, Invercargill, Dunedin.

Samoa.-Apia.

New Caledonia .- Noumea.

Fiji.-Suva.

Hawaii.-Honolulu.

Society Islands .- Papeete.

#### AFRICA

Egypt.-Port Said, Suez, Alexandria.

Anglo-Egyptian Sudan .- Port Sudan, Suakin.

Eritrea .- Massaua.

French Somaliland .- Djibouti.

British Somaliland.-Berbera.

Italian Somaliland .- Mogadiscio.

Zanzibar.-Zanzibar. Kenya.-Mombasa.

Tenganyika.-- Dar-es-Salsam.

Seychelles.-Victoria.
Portuguese East Africa.-Mozambique, Beira,

Lourence-Marques.

Union of South Africa.-East London, Port Elizabeth, Cape Town, Durban.

Reunion.-Saint Denis.

Distra + But Meuritius .- Port Louis. Madagescar.-Majunga,

Tamatave.

Suarez.

Reports had not been received in time for publication from:

Arabia.-Kamaran.

Union of Societ Socialist Republics .- Vladivostock.

Belated information:

Week ended April 16: Surabaya, one fatal plague case. Other ports of Dutch East In dies, nil. Colombo, six plague cases and three deaths; one plague-infected rat has been found.

Week ended April 9: Pondicherry and Karikal, nil.

Movement of infected ships:

Singapore,—The S. S. Donai arrived on April 25 from Cholon infected with cholera.

Port Swettenham,—The S. S. Tetres arrived on April 22 from Madras infected with smallpox,

#### CANADA

Communicable diseases—Week ended May 7, 1927.—The Canadian Ministry of Health reports cases of certain communicable diseases from six Provinces of Canada for the week ended May 7, 1927, as follows:

| Disease                         | Nova<br>Scotia | New<br>Bruns-<br>wick | Quebec | Mani-<br>toba | Saskatch-<br>ewan | Alberta | Total           |
|---------------------------------|----------------|-----------------------|--------|---------------|-------------------|---------|-----------------|
| InfluenzaSmailpox Typhoid fever | 37             |                       | 112    | 1             | 7                 | 11      | 37<br>19<br>118 |

#### CZECHOSLOVAKIA

Communicable diseases—March, 1927.—During the month of March, 1927, communicable diseases were reported in the Republic of Czechoslovakia as follows:

| Disease                                       | Cases                     | Deaths        | Disease                                                           | Cases                         | Deaths              |
|-----------------------------------------------|---------------------------|---------------|-------------------------------------------------------------------|-------------------------------|---------------------|
| Cerebrospinal meningitis Diphtheria Dysentery | 21<br>570<br>20<br>7<br>3 | 10<br>56<br>3 | Puerperal fever Scarlet fever Trachoma Typhoid fever Typhus fever | 49<br>997<br>180<br>276<br>35 | 18<br>15<br>32<br>3 |

#### EGYPT

Plague—April 9-21, 1927.—Plague has been reported in Egypt as follows: Week ended April 15, 1927, 6 cases, of which 1 case occurred in the city of Alexandria and 5 cases in the Province of Guerga, the total number of cases from January 1 to April 15, 1927, being 23. During the corresponding period of 1926 there were 10 cases. From April 16 to 21, 1927, 7 cases with 5 deaths, 1 case being septicemic. The occurrence was in four localities, with 4 cases in one locality, viz, El Berber. On April 29, 1 case was reported in the Province of Gharbia.

Communicable diseases—January 1-April 1, 1927 (comparative).— During the period from January 1 to April 1, 1927, communicable diseases were reported from Egypt as follows:

| Disease                             | Jan. 1-A                   | pr. 1, 1927 | Corresp                  | ponding<br>1, 1926 |
|-------------------------------------|----------------------------|-------------|--------------------------|--------------------|
| manage matrings the officers of the | Cases                      | Deaths      | Cases                    | Deaths             |
| Cerebrospinal meningitis            | 1,940<br>157<br>234<br>196 | 17          | 3<br>1,067<br>907<br>298 | 190                |

#### ESTONIA

Communicable diseases—March, 1927.—During the month of March, 1927, communicable diseases were reported in the Republic of Estonia as follows:

| Disease                  | Cases                 | Disease                                    | Cases          |
|--------------------------|-----------------------|--------------------------------------------|----------------|
| Cerebrospinal meningitis | 2<br>34<br>276<br>679 | Tuberculosis. Typhoid fever. Typhus fever. | 208<br>35<br>1 |

Population, 1,114,630.

### IRELAND (IRISH FREE STATE)

Typhus fever—Donegal County—April 24-30, 1927.—During the week ended April 30, 1927, a case of typhus fever was reported in Donegal County, Irish Free State, Ireland, occurring in the rural district of Letterkenny.

#### **JAMAICA**

Smallpox (alastrim)—April 3-30, 1927.—During the period April 3 to 30, 1927, 23 cases of smallpox, reported as alastrim, were notified in the island of Jamaica, occurring at localities other than Kingston, with 13 cases notified during the first week of the period under report and 1 case during the last week.

Other communicable diseases were reported as follows:

|                                         | Cases         |                    |                                                    | Cases    |                  |
|-----------------------------------------|---------------|--------------------|----------------------------------------------------|----------|------------------|
| Disease                                 | Kingston      | Other localities   | Disease                                            | Kingston | Other localities |
| Cerebrospinal meningitis<br>Chicken pox | 43<br>11<br>1 | 1<br>89<br>32<br>2 | Puerperal fever<br>Tuberculosis.<br>Typhoid fever. | 34<br>28 | 46<br>80         |

### MADAGASCAR

Plague—February 16-28, 1927.—During the period February 16 to 28, 1927, 148 cases of plague with 140 deaths were reported in the island of Madagascar. The occurrence was distributed in five Provinces, as follows: Ambositra—12 cases; Antisirabe—15 cases; Miarinarivo—40 cases; Moramanga—10 cases; Tananarive, including 2 cases in Tananarive town—71 cases. The distribution according to type was: Bubonic—74 cases; pneumonic—27 cases; septicemic—47 cases.

### MEXICO

Epidemic measles—Vera Cruz—February, 1927.—Epidemic measles was reported present at Vera Cruz, Mexico, early in the month of February, 1927, many of the cases being of a severe type. To May 10, 1927, 26 fatalities from the disease were reported. It was stated that in some of the fatal cases of measles the cause of death was given as bronchitis, or broncho-pneumonia.

#### MOROCCO

Typhus fever—Sanitary conditions—Precautions against spread.— Information dated April 9, 1927, shows an increased prevalence of typhus fever in southern Morocco, the greatest prevalence being reported at Marrakech and Mogador. The greatest incidence was in the native population and in a battalion of Senegalese soldiers recently in charge of a sick native camp at Marrakech. A military cordon had been established to prevent movement of the native population, together with quarantine camps which provided bathing facilities, medical observation, disinfection and sterilization of clothing for all persons detained. The outbreak was attributed to failure of food supply and consequent movement of the population to seek more favorable living conditions.

### VIRGIN ISLANDS

Communicable diseases—April, 1927.—During the month of April, 1927, communicable diseases were reported in the Virgin Islands of the United States as follows:

| Island and disease                                                                                                                                            | Cases                                         | Remarks                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------|
| St. Thomas and St. John: Chancroid Chicken pox Gonorrhea Influenza Syphilis Tuberculosis St. Croix: Filariasis Gonorrhea Leprosy Schistosomiasis Uncinariasis | 1 1 3 4 4 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Secondary, 6; tertiary, 1.<br>Chronic, pulmonary.<br>Bancrofti.<br>Mansoni.<br>Necator americanus. |

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

### Reports Received During Week Ended May 27, 1927 1

#### CHOLERA

| Place                                               | Date                                           | Cases           | Deaths | Remarks                                        |
|-----------------------------------------------------|------------------------------------------------|-----------------|--------|------------------------------------------------|
| China:<br>Chungking.<br>French Settlements in India | Mar. 13-19<br>Jan. 23-Mar. 5                   | 10              | 8      | Present. Feb. 20-26, 1927: Cases, 1,381;       |
| CalcuttaMadras Indo-China (French)                  | Mar. 27-Apr. 9<br>Apr. 10-16<br>Feb. 1-Mar. 20 | 144<br>1<br>281 | 133    | deaths, 900.  Mar. 27-Apr. 2, 1927: Cases, 46; |
| Bangkok                                             | Mar. 27-Apr. 2                                 | 16              | 9      | deaths, 31. District.                          |

#### PLAGUE

| Egypt: Alexandria Guerga Province. Gharbla Province. India. | Apr. 9-15<br>Apr. 9-21<br>Apr. 29         | 1<br>12<br>1 |          | Feb. 20-26, 1927: Cases, 2,404;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------|-------------------------------------------|--------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bombay<br>Madras Presidency<br>Indo-China (French)          | Mar. 27-Apr. 2<br>Mar. 20-26<br>Feb. 1-28 | 36<br>3      | 6<br>22  | deaths, 1,521.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Batavia<br>Pribolingo district<br>Semarang                  | Apr. 3-9                                  | 7            | 7        | Province.<br>Outbreak at Ngadas.<br>Seaport. Present.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Madagascar                                                  |                                           |              |          | Feb. 16-28, 1927: Cases, 148;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Province— Ambositra Antisirabe                              | Feb. 16-28do                              | 12<br>15     | 12<br>15 | deaths, 140. Bubonic, 3; septicemic, 9. Bubonic, 2; pneumonic, 4; septicemic, 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Miarinarivo (Itasy)                                         | do                                        | 40           | 39       | Bubonic, 20; pneumonic, 9; sep-<br>ticemic, 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Moramanga                                                   | do                                        | 10           | . 5      | Bubonic, 7; pneumonic, 1; sep-<br>ticemic, 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Tananarive                                                  | do                                        | 71           | 69       | Bubonic, 42; pneumonic, 13; sep-<br>ticemic, 16. Including 2 cases<br>in Tananarive Town.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Nigeria                                                     | Dec. 1-31                                 | 67           | 65       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Do                                                          | Jan. 1-31                                 | 42           | 42       | at a contract of the contract |
| Russia Union of South Africa: Cape Providence               | Nov. 1-Dec. 31                            | 34           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Hanover district                                            | Mar. 27-Apr. 2                            | 2            | 1        | At Linderallway siding. Native.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Tarkastad district                                          | do                                        | 3            | 1        | On Spring Valley farm. Native.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

#### SMALLPOX

| Algeria      |                |           |             | Feb. 21-Mar. 20, 1927: Cases, 191                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------|----------------|-----------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Canada       | May 1-7        |           |             | Cases, 19.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Alberta      | do             | - 11      |             | A STATE OF THE PARTY OF THE PAR |
| Calgary      | May 1-7        | 5         |             | Service A. A. Company of the Control |
| Manitoba     | do             | 1         |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Winnipeg     | May 8-14       | 3         |             | ALCOHOL STATE OF THE STATE OF T |
| Ontario-     |                |           |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ottawa       | May 1-7        | 2         | LOC 1 201   | The second secon |
| Toronto      | do             | 14        |             | The state of the s |
| Saskatchewan | do             | 7         |             | ALC: NO PERSON NOT AN ARMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| China:       |                |           | ********    | TO SHOULD AND THE PERSONAL PROPERTY OF THE PER |
| Chefoo       | Apr. 3-9       |           | Artis Souls | Present.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Chungking    | Mar. 13-19     |           |             | Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Foochow      |                |           |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|              | Mar. 27-Apr. 2 | ******    |             | Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Manchuria—   | 4              | V () 1,00 | Value 1     | BEST SHOP S. M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Anshan       | Apr. 10-16     | 1         | *********   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Dairen       | Mar. 14-Apr. 3 | 17        | 1 0         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Mukden       | Apr. 3-9       | 1         |             | The second short                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Tiehling     | do             | 1         |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

<sup>&</sup>lt;sup>1</sup> From medical officers of the Public Health Service, American consuls, and other sources.

# Reports Received During Week Ended May 27, 1927—Continued SMALLPOX—Continued

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| Place "                                                 | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cases   | Deaths     | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| China—Continued                                         | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | n W.S.  |            | 5 1 1 2 2 2 2 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Shanghai                                                | Apr. 3-9<br>Mar. 27-Apr. 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1       |            | Foreign settlement.<br>Prevalent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SwatowTientsin                                          | Mar. 27-Apr. 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |            | Prevalent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tientsin                                                | Apr. 3-9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6       | 1          | Reported by British munici                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Chosen                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |            | Reported by British munici<br>pality and 1 mission hospital<br>Jan. 1-31, 1927: Cases, 98; deaths                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Egypt:                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |            | 21.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Alexandria                                              | Apr. 2-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1       |            | of the second day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Paris                                                   | Apr. 11-20<br>Jan. 23-Feb. 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| French Settlements in India<br>Gold Coast               | Jan. 23-Feb. 20<br>Jan. 1-31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 34 5    | 34         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| England and Wales-                                      | A 04 00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Newcastle-on-Tyne<br>Sheffield                          | Apr. 24-30<br>Apr. 17-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 111     | ********** |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Scotland—                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Dundee                                                  | Apr. 24-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 16      |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Saloniki                                                | Mar. 8-14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         | 1          | Feb. 20-26, 1927: Cases, 6,353                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| IndiaBombay                                             | Mar. 27-Apr. 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 85      | 48         | deaths, 1,384.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Calcutta                                                | Mar. 27-Apr. 2<br>Mar. 27-Apr. 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 538     | 404        | death, apos                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Karachi                                                 | Apr. 10-16<br>Jan. 16-Feb. 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1       | 1          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Italy                                                   | Jan. 16-Feb. 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2       |            | 1 2 00 100T: Class 00 (alas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Jamaica                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |            | Apr. 3-30, 1927; Cases, 23 (alas<br>trim).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Japan                                                   | Jan. 30-Feb. 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 33      |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sasebo                                                  | May 8-14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3       |            | Dec 1 81 1000 Deaths 154                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mexico City                                             | Apr. 94-90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2       |            | Including municipalities in Fed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| San Luis Potosi                                         | Apr. 24-30<br>May 1-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | 1          | Dec. 1-31, 1926: Deaths, 154.<br>Including municipalities in Federal district.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Netherlands India:<br>Borneo                            | The state of the s |         |            | Epidemic in 6 localities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Nigeria                                                 | Feb. 7-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 96      | 12         | 200000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Russia                                                  | Nov. 1-Dec. 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 931     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Siam<br>Bangkok                                         | Man 07 Am 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3       | 3          | Mar. 27-Apr. 2, 1927; Cases, 12<br>deaths, 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Bangkok                                                 | Mar. 27-Apr. 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3       | 6          | цевець, о.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SpainValencia                                           | Oct. 1-31<br>Apr. 24-30<br>Feb. 21-Mar. 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1       |            | A STREET BY TO BE A STREET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tunisia                                                 | Feb. 21-Mar. 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                         | турни                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | S PEVE  | R          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Almeria                                                 | Feb. 21-Mar. 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 126     |            | The state of the s |
| Algeria<br>Bulgaria                                     | Feb. 1-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 120     | 4 2        | Committee of the second |
| Sofia                                                   | Apr. 16-22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1       |            | Commence of the same of the same of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Chosen                                                  | Apr. 16-22<br>Jan. 1-31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 65      | 10         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chemulpo                                                | Mar. 1-31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5       | *********  | A THE RESIDENCE OF THE PARTY OF |
| Scoul.<br>Czechoslovakia                                | do                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 35      | 1 3        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Estonia<br>Ireland (Irish Free State):                  | **************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |            | Mar. 1-31, 1927: 1 case.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Ireland (Irish Free State): Donegal County— Letterkenny | Ann 04.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Hys.    |            | Rural district.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Italy                                                   | Apr. 24-30<br>Jan. 16-Feb. 26<br>Dec. 1-31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 15      |            | Avutai district.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Mexico                                                  | Dec. 1-31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         | 28         | Comment of Supplication would                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Morocco<br>Marrakech                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |            | Apr. 9, 1927: Prevalent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Marrakech                                               | Apr. 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |            | Present.<br>Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Mogador                                                 | do                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         | ********   | Apr. 12-25, 1997: Cases, 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Poland                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |            | Apr. 12-25, 1927: Cases, 3.<br>Mar. 6-12, 1927: Cases, 157<br>deaths, 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |            | deaths, 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Rumania                                                 | Jan. 1-31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4,609   | 31         | Antibia Antibia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Russia<br>Tunisia                                       | Jan. 1-31<br>Nov. 1-Dec. 31<br>Feb. 21-Mar. 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4, 609  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Union of South Africa:                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | ********** |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Cape Province                                           | Mar. 27-Apr. 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ******* |            | Outbreaks in Xalanga district.<br>At Bulwer location.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Natal                                                   | do                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |            | At Bulwer location.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                         | YELLOV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V PEVE  | R          | Sundantal -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                         | 7 9 7883                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |            | THE RESERVE THE RESERVE THE THE PARTY OF THE |
| Gold Coast                                              | Feb. 1-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 17      | 7          | The second secon |

## Reports Received from January 1 to May 20, 1927

### CHOLERA

| Place                       | Date                         | Cases | Deaths | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------|------------------------------|-------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| China:                      |                              |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Canton                      | Nov. 1-30                    | 10    | 3      | No. of the State o |
| Chungking                   | Nov. 14-20                   |       |        | Present,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Do                          | Jan. 2-Feb. 19               |       |        | Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tsingtao                    | Nov. 14-Dec. 11              |       |        | Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Chosen                      | Sept. 1-Oct. 31              | 252   | 159    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| French Settlements in India | Aug. 29-Dec. 18              | 131   | 97     | 100000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Do                          | Jan. 2-22                    | 10    | 7      | The state of the s |
| India                       | Oct. 10-Jan. 1               |       | Maria  | Cases, 20,298; deaths, 13,507.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Do                          | Jan. 2-Feb. 12               |       |        | Cases, 15,862; deaths, 8,910.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Bombay                      | Jan. 9-29                    | 2     | 1      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Calcutta                    | Oct. 31-Jan. 1               | 385   | 313    | Man Carl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Do                          | Jan. 2-Mar. 19               | 601   | 468    | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Madras                      | Dec. 26-Jan. 1               | 2     | 2      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Jan. 2-Mar. 19               | 12    | . 9    | 7 2 2 3 3 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Rangoon                     | Nov. 21-Jan. 1               | ii    | . 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Jan. 2-Apr. 2                | 62    | 52     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Inda China                  | July 1-Dec. 31               | 02    | 02     | Cases, 8,508,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Indo-China                  |                              | 490   |        | Cases, 6,000.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Do                          | Jan. 1-31<br>Oct. 31-Nov. 13 |       | 0      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Saigon                      | Oct. 31-Nov. 13              | 2     | 2      | and the second second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Province—                   | Tolar t Aug 91               | ***   | 409    | The same of the sa |
| Annam                       | July 1-Aug. 31               | 511   | 401    | The state of the s |
| Cambodia                    | do                           | 727   | 472    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                             | do                           | 432   | 349    | TOTAL STREET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Kwang-Chow-Wan              | do                           | 703   | 361    | The second secon |
| Laos                        | do                           | 56    | 47     | A TALL OF THE RESIDENCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Tonkin                      | do                           | 1,017 | 646    | C VIII-L PERSON NAMED AND ADDRESS OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Japan:                      |                              |       |        | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Hiogo                       | Nov. 14-20                   | 3     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Philippine Islands:         |                              |       | 11     | The state of the s |
| Manila                      | Oct. 31-Nov. 6               | 1     |        | The second secon |
| Russia                      | Aug. 1-Sept. 30              | 8     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Siam                        | Apr. 1-Jan. 1                |       |        | Cases, 7,847; deaths, 5,164.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Do                          | Jan. 2-Mar. 26               |       |        | Cases, 562; deaths, 395.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Bangkok                     | Oct. 31-Jan. 1               | 16    | 5      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Jan. 9-Mar. 26               | 96    | 56     | The second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Straits Settlements         | July 25-Oct. 16              |       | 60     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Singapore                   | Nov. 21-Jan. 1               | 14    | 8      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Feb. 6-12                    | 1     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

### PLAGUE

| Algeria:              | 5. 34             |       |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|-------------------|-------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | Reported Nov. 16. | 1     | dist one       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | Jan. 11-19        | 3     | 2              | The state of the s |
|                       |                   | 32    | 22             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | Nov. 21-Dec. 10   |       |                | 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | Nov. 1-Dec. 9     | 10    | 9              | Near Oran.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Angola:               | 500 b - 500 b     | T YA  | all the        | The same of the sa |
| Benguela district     | Oct. 1-Dec. 31    | 17    | 10             | 145                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Do                    | Jan. 19-31        | 1     |                | At Cavaco.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Cuanza Norte district | Dec. 1-31         | 18    | 10             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | Dec. 16-31        | . 10  |                | The same of the sa |
| Do                    | Jan. 19-Feb. 28   | 8     |                | The second secon |
|                       | Feb. 9-15         | 1     | of the Paris   | the state of the state of the state of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                       | Jan. 9-15         |       |                | The second secon |
| Azores:               | Jan. 9-10         |       |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       |                   |       | 407 1          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| St. Michaels Island—  |                   |       |                | 27 miles distant from port.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                       | Nov. 3-17         |       |                | 21 miles distant from port.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Brazil:               |                   | -     | 1              | The same of the sa |
|                       | Jan. 1-31         | 4     | 2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | Nov. 28-Dec. 4    | 2     | 2              | A STATE OF THE PROPERTY OF THE PARTY OF THE  |
| Do                    | Dec. 26-Jan. 1    | 1     | 1              | On vessel in harbor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Do                    | Jan. 2-8          | 1     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sao Paulo             | Nov. 1-14         | 1     | 1              | Control of the Contro |
| British East Africa:  |                   | 15.77 | 475-5-050      | the second second second second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Kenya-                | bit bar           |       | State State of | New York Control of the Park                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Kisumu                | Jan. 16-22        | 1     | 1              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | Feb. 27-Mar. 19   | 7     | 9              | The state of the s |
|                       | Nov. 21-Dec. 18   |       | 12             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       |                   | 162   | 152            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Uganda                | Sept. 1-Oct. 31   | 102   | 102            | AND ADDRESS OF THE PARTY OF THE |

<sup>&</sup>lt;sup>1</sup> From medical officers of the Public Health Service, American consuls, and other sources.

# Reports Received from January 1 to May 20, 1927-Continued

### PLAGUE-Continued

| Place                          | Date                                               | Cases     | Deaths        | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------|----------------------------------------------------|-----------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Canary Islands:                |                                                    | 100       | 7 - 4         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Atarfe                         | Dec. 20                                            | 1         | 1             | Vicinity of Las Palmas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Las Palmas                     | Jan. 8-Feb. 12                                     | 2         |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| San Miguel                     | do                                                 | 1         |               | Vicinity of Santa Cruz de Tene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Celebes:<br>Makassar           | Dec. 22                                            |           | 100           | Outbreak.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Makassar                       | Dec. de                                            |           |               | Outstan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Colombo                        | Nov. 14-Dec. 11<br>Jan. 2-Apr. 2                   | 3<br>47   | 26            | 2 plague rodents.<br>13 plague rodents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| China:                         | A. C.          |           | 1550          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Mongolia                       | Reported Dec. 21 -                                 | 500       |               | Present.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Nanking                        | Oct. 31-Dec. 18<br>Feb. 6-Mar. 5                   | *******   |               | Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Do                             | Feb. 6-Mar. 8                                      | ********  |               | 20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Ecuador:<br>Guayaquil          | Nov. 1-Dec. 31                                     | 26        | 8             | Rats taken, 50,615; found in-<br>fected, 184.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Do                             | Jan. 1-Mar. 31                                     | 79        | 22            | Rats taken, 71,517; found in-<br>fected, 237.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Favnt                          | Jan. 1-Dec. 9                                      |           | M             | Cases, 149.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Egypt                          | Jan. 1-Mar. 18                                     |           |               | Cases, 14.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Alexandria                     | Nov. 19-Dec. 2                                     | 2         |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                             | Apr. 2-5                                           | 2         | 1             | As Grands (Bal at Fahle)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Charkia Province               | Jan. 5                                             | 1         | 1             | At Zagazig (Tel el Kebir).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gharbia Province               | Jan. 4                                             | 1         | 1             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Guerga district                | Apr. 5                                             | 1 2       |               | No. of the second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Kafr el Sheikh<br>Marsa Matrah | Dec. 3-9<br>Dec. 23-29                             | 10        |               | and the second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Do                             | Jan. 27                                            | 1         |               | St. C. L. S. Y. J. J. S. L.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Port Said                      | Mar. 12-18                                         | 2         | 1             | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Tanta district                 | Nov. 19-Dec. 20                                    | 3         |               | 100000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Greece:                        |                                                    |           | Children Buch | The second secon |
| Athens and Piræus              | Nov. 1-Dec. 31                                     | 19        | 5             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                             | Jan. 1-Mar. 31                                     | 24        | 3             | A COLOR OF THE REAL PROPERTY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Patras                         | Nov. 28-Dec. 4                                     | 1         | i             | Province of Drama-Kevalla.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| PraviIndia                     | Nov. 27.<br>Oct. 10-Jan. 1                         |           | 1000          | Cases, 16,162; deaths, 9,905.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Do                             | Jan. 2-Feb. 19                                     |           |               | Cases, 9,696; deaths, 7,413.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Bombay                         | Nov. 21-27                                         | 1         | 1             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                             | Jan. 16-Mar. 26<br>Jan. 31-Jan. 1                  | 22        | 19            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Madras                         | Jan. 31-Jan. 1                                     | 581       | 324<br>570    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                             | Jan. 2-Mar. 19                                     | 965       | 9             | The second secon |
| Rangoon                        | Nov. 14-Dec. 25<br>Jan. 2-Apr. 2<br>July 1-Dec. 31 | 11<br>55  | 50            | Rats found plague infected, 12.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do<br>Indo-China               | July 1-Dec 31                                      | 00        | 00            | Cases, 52; deaths, 34.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Do                             | Jan. 1-31                                          | 12        |               | 100000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Province—<br>Cambodia          | do                                                 | 10        | 10            | 137                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Coehin-China<br>Kwang-Chow-Wan | do                                                 | 14        | 9             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Kwang-Chow-Wan                 | do                                                 | 10        |               | July, 1925; Cases. 22: deaths. 18.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Iraq:<br>Baghdad               | Jan. 23-Mar. 12                                    | 4         | - 1           | the second of the second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Java:<br>Batavia               | Nov. 7-Jan. 1<br>Jan. 2-Mar. 26                    | 91        | 90            | Province.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Do<br>East Java and Madura     | Oct. 24-Jan. 1                                     | 244<br>17 | 237           | Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Do<br>Madagascar:              | Jan. 2-Mar. 5                                      | . 18      | 18            | A SECOND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Province—<br>Ambositra         | Dec. 16-31                                         | 10        | 10            | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Do                             | Jan. 1-Feb. 15                                     | 46        | 44            | Little Bridge Control of the Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Analalava                      | Oct. 16-31                                         | 1         | 1             | 7 (41)/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Antisirabe                     | Dec. 16-21                                         | 2         | 2<br>54       | Man de la company de la compan |
| Do                             | Jan. 1-Feb. 15                                     | 54        | . 54          | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Diego-Suarez                   | do                                                 | 7 39      | 39            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do.                            | Oct. 16-Dec. 31                                    | 92        | 86            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Maevatanana                    | Jan. 1-Feb. 15<br>Oct. 16-31                       | 10        | 10            | A STATE OF THE PARTY OF THE PAR |
| Majunga                        | do                                                 | 3         | 1             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Moramanga                      | Oct. 16-Dec. 31                                    | 92        | 67            | 1 ar 1 4 ar 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Do                             | Jan. 1-Feb. 15                                     | - 50      | 48            | Land and Justine and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Tamatave                       | Oct. 16-Dec. 31                                    | 107       | 60            | and the state of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Tananarive                     | do                                                 |           |               | Cases, 533; deaths, 497.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Reports Received from January 1 to May 20, 1927-Continued

### PLAGUE—Continued

| Place                                | Date                                                    | Cases  | Deaths    | Remarks                                         |
|--------------------------------------|---------------------------------------------------------|--------|-----------|-------------------------------------------------|
| Madagascar—Continued.                |                                                         |        |           |                                                 |
| Town-                                |                                                         |        |           |                                                 |
| Tamatave                             | Nov. 16-30                                              | 2      |           |                                                 |
| Tananarive                           | Oct. 16-Dec. 31                                         | 48     | 47        |                                                 |
| Do                                   | Jan. 1-Feb. 15                                          | 19     | 18        |                                                 |
| Mauritius:                           |                                                         |        |           |                                                 |
| Plaines Wilhems                      | Oct. 1-Nov. 30                                          | 3      | 3         |                                                 |
| Pamplemousses                        | Dec. 1-31                                               | 3.     | 3         |                                                 |
| Port Louis                           | Oct. 1-Dec. 31                                          | 39     | 35        |                                                 |
| Do                                   | Jan. 1-31                                               | 5      | 3         |                                                 |
| Nigeria                              | Aug. 1-Nov. 30<br>Nov. 1-Dec. 31<br>Jan. 1-Mar. 31      | 900    | 902       |                                                 |
| Peru                                 | Nov. 1-Dec. 31                                          | ****** |           | Cases, 90; deaths, 26.                          |
| Do                                   | Jan. 1-Mar. 31                                          | 92     | 23        |                                                 |
| Departments—                         |                                                         |        |           |                                                 |
| Ancash                               | Dec. 1-31                                               | 6      | 6         |                                                 |
| Do                                   | Jan. 1-Mar. 31                                          | 3      |           |                                                 |
| Cajamarca                            | do                                                      | 36     | 6         |                                                 |
| Callao                               | Mar. 1-31                                               | 1      | 1         |                                                 |
| Ica-                                 | Man 1 00                                                |        |           |                                                 |
| Chincha                              | Nov. 1-30                                               | 1 6    | 2         |                                                 |
| Lambayeque                           | Feb. 1-28                                               |        | 2         |                                                 |
| Chiclayo                             | Nov. 1-30                                               | 3      |           |                                                 |
| Do                                   | Jan. 1-31                                               | 2 2    |           |                                                 |
| Libertad                             | Dec. 1-31                                               | 6      |           |                                                 |
| Lima                                 | Nov 1-Dec 21                                            | 42     | 14        |                                                 |
|                                      | Nov. 1-Dec. 31<br>Jan. 1-Mar. 31                        | 75     | 20        |                                                 |
| Do                                   | Feb. 1-28                                               | 1      | 20        |                                                 |
| Piura<br>Portugal:                   | Feb. 1-26                                               | 1      |           |                                                 |
| Lisbon                               | Nov. 23-26                                              | 3      | 2         |                                                 |
| Russia                               | May 1-June 30                                           | 44     |           |                                                 |
| Do                                   | July 1-Sept 30                                          | 64     |           |                                                 |
| Senegal                              | July 1-31                                               | 178    | 162       |                                                 |
| Dakar                                | Apr 1-10                                                | 10     | 7         |                                                 |
| Diourbel                             | Nov. 20-30                                              | 12     | i         |                                                 |
| Thies                                | July 1-31<br>Apr. 1-10<br>Nov. 20-30<br>Mar. 28-Apr. 20 | 17     | 15        |                                                 |
| Tivaouane                            | Dec. 19-25                                              | 6      | 2         | In interior.                                    |
| Do                                   | Mar. 21-Apr. 20                                         | 27     | 10        | Do.                                             |
| Siam                                 | Apr. 1-Jan. 1                                           |        |           | Cases 30; deaths, 22.<br>Cases, 12; deaths, 10. |
| Do                                   | Jan. 16-Mar. 26                                         | ****** |           | Cases, 12; deaths, 10.                          |
| Bangkok                              | Feb. 27-Mar. 26                                         | 2      | 2         |                                                 |
| Syria:                               | 110 (0.00) (0.00)                                       |        |           |                                                 |
| Beirut                               | Nov. 11-Dec. 20                                         | 4      |           |                                                 |
| Do                                   | Feb. 1-10                                               | 1      |           |                                                 |
| Tunisia                              | Dec. 1-31                                               |        |           | Cases, 43.                                      |
| Do                                   | Jan. 12-26                                              |        |           | Cases, 34.                                      |
| Acheche district                     | Feb. 11-14                                              | 14     | - 14      | Pneumonia.                                      |
| Bousse                               | Jan. 12-26                                              | 8      |           |                                                 |
| Djeneniana                           | Feb. 11-14                                              | 8      |           |                                                 |
| Kairouan                             | do                                                      | 3      |           |                                                 |
| Mahares                              | do                                                      | 15     | ********* |                                                 |
| Sfax                                 | Oct. 1-Dec. 31                                          | 304    | 128       |                                                 |
| Turkey:                              | Dec 15 05                                               |        |           |                                                 |
| Constantinople                       | Dec. 15-25                                              | 1      |           |                                                 |
| Union of South Africa:               |                                                         |        | 1         |                                                 |
| Cape Province—                       | Y 0 3/ 00                                               |        |           |                                                 |
| Cradock district                     | Jan. 2-Mar. 26                                          | 4      | 2         | Matina                                          |
| De Aar district                      | Nov. 21-27                                              | 1      |           | Native.                                         |
| Glen Gray district                   | Jan. 31-Feb. 12                                         | 8      | 8         |                                                 |
| Hanover district                     | Nov. 14-Jan. 1                                          | 3      | 2         |                                                 |
| Do                                   | Jan. 2-8                                                | 1      | 1         | De                                              |
| Middleburg district                  | Dec. 5-11                                               | 1 3    | 1 2       | Do.                                             |
| Richmond district                    | Mar. 6-12                                               | 8      | 2         | Care 12 deaths 2                                |
| Orange Free State                    | Rob 07 Mar 10                                           |        |           | Cases, 12; deaths, 2.                           |
| Bloomfontein district                | do                                                      | 3 2    | 3         |                                                 |
| Bothaville district                  | Dec. 5-18                                               |        | 1         | Native.                                         |
| Hoopstad district                    | Nov. 7-13<br>Dec. 5-25                                  | 1      | 1         |                                                 |
| Do                                   | Ten 0 Peh 10                                            | 2      | 1         | Do.                                             |
| Do                                   | Jan. 2-Feb. 12                                          | 10     |           |                                                 |
| Vredefort district                   | Dec. 19-25                                              |        | 5         |                                                 |
| Do                                   | Feb.6-12                                                | 2      | 1         |                                                 |
| On vessel:<br>S. S. Leconte de Lisle | Feb. 21-23m                                             | 2      |           | At Tamatave, Madagascar.                        |
| E E LACORTA (IN LISTA                | FED 21-23TB                                             | 21     |           | At Laminente, mininginocai.                     |

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## Reports Received from January 1 to May 20, 1927-Continued

### SMALLPOX

| Place                                       | Date                                                              | Cases   | Deaths    | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------|-------------------------------------------------------------------|---------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Algeria                                     | Sept. 21-Dec. 31.                                                 |         |           | Cases, 797.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Do                                          | Jan. 1-Feb. 20                                                    |         |           | Cases, 327.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Algiers                                     | Dec 11-31                                                         | 4       |           | Cases, ser.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Do                                          | Jan. 1-Apr. 10                                                    | 14      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Oran                                        | Dec. 11-31                                                        | . 31    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Angola                                      | Oct. 1-15<br>Feb. 2-15                                            |         |           | Present in Congo district,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Congo                                       | Feb. 2-15                                                         | . 1     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Cuanza Norte                                | Nov. 1-15                                                         |         |           | Present.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Malange                                     | Feb. 2-15                                                         | 2       | ********  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Aden<br>Do                                  | Dec. 12-18<br>Apr. 3-9                                            | 1       |           | Imported.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Belgium                                     | Apr. 3-9<br>Oct. 1-10                                             | 1       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Brazil:                                     |                                                                   |         |           | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Bahia                                       | Oct. 30-Dec. 18                                                   | . 12    | 8         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Para                                        | Oct. 31-Nov. 6                                                    |         | - 1       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                                          | Feb. 5-12                                                         | ******* | 1         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Pernambuco                                  | Oct. 17-Dec. 25                                                   | . 58    | 4         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Rio de Janeiro                              | Year 1926                                                         |         |           | Cases, 4,033; deaths, 2,180.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Do                                          | Jan. 2-Apr. 16<br>Aug. 23-Dec. 5                                  | 77      | 34        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sao Paulo<br>British East Africa:<br>Kenya— | Aug. 23-Dec. 5                                                    | 34      | 18        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Nairobi                                     | Dec. 1-31                                                         | 15      | 5         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tanganyika Territory                        | Oct. 31-Nov. 20                                                   |         |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                                          | Jan. 2-Mar. 5                                                     | 34      | 21        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Zanzibar                                    | Oct. 1-31                                                         | 23      | 12        | )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| British South Africa:                       |                                                                   |         |           | San Committee of the Land                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Northern Rhodesia                           | Nov. 27-Dec. 3                                                    |         |           | Cases, 200. In natives,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Do                                          | Feb. 26-Mor 25                                                    | 131     | 4         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Bulgaria                                    | Nov. 1-30.<br>Dec. 5-Jan. 1.<br>Jan. 2-Apr. 30.<br>Dec. 5-Jan. 1. | . 1     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Canada                                      | Dec. 5-Jan. 1                                                     |         |           | Cases, 155.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Do                                          | Jan. 2-Apr. 30                                                    |         |           | Cases, 605.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Alberta                                     | Dec. 5-Jan. 1                                                     | 132     | ********  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                                          | Jan. 2-Apr. 30                                                    | 237     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Calgary                                     | Nov. 28-Dec. 25                                                   | 12      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                                          | Jan. 2-Apr. 30                                                    | 33      | 1         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Edmonton                                    | Dec. 1-31                                                         | 4       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                                          | Jan. 1-Mar. 31                                                    | 18      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| British Columbia—                           | T 01 1 01                                                         | 10      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Vancouver                                   | Jan. 31-Apr. 24                                                   | 9       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Manitoba                                    | Lee, 3-Jan, 1                                                     | 23      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                                          | Dec. 5-Jan. 1<br>Jan. 2-Apr. 23<br>Dec. 19-25                     | 1       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Winnipeg                                    | Dec. 19-25                                                        | 10      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| New Brunswick                               | Jan. 2-May 7                                                      | . 10    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| New Branswick                               | Peo 5 Jan 1                                                       | 96      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ontario                                     | Lee. 5-Jan. 1                                                     | 289     | ********  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                                          | Feb. 13–26                                                        | 3       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Kingston                                    | Dec. 12-31                                                        | 5       | ********* |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ottawa                                      | Ion 9-Apr 99                                                      | 9       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                                          | Jan. 9-Apr. 23<br>Dec. 14-25                                      | 14      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Toronto                                     | Ion 1-Apr 30                                                      | 78      | 1         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do<br>Saskatchewan                          | Jan. 1-Apr. 30<br>Dec. 5-Jan. 1                                   | 18      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                                          | Jan. 2-Apr. 30                                                    | 57      | 04494444  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Regina                                      | Jan. 16-22                                                        | 1       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chile:                                      | FIRM TO 44                                                        |         |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Concepcion                                  | Dec. 26-Jan. 1                                                    |         | 5         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Iquique                                     | Mar. 1-15                                                         | 2       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| China:                                      |                                                                   |         |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Amoy                                        | Jan. 1-Mar. 26                                                    | 8       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Anghan                                      | Mar. 21-27                                                        | 3       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Antung                                      | do                                                                | 1       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Canton                                      | Nov. 1-Dec. 31                                                    | 6       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chefoo                                      | Nov. 1-Dec. 31<br>Jan. 23-Mar. 20                                 |         |           | Present.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Chungking                                   | Nov. 7-Dec. 25                                                    |         |           | Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Do                                          | Jan 2-Mar 12                                                      |         |           | Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Foochow.                                    | Nov. 7-Dec. 25                                                    |         |           | Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Do                                          | Feb. 27-Mar. 19                                                   |         |           | Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Hankow.                                     | Nov. 7-Dec, 25<br>Feb. 27-Mar. 19<br>Nov. 6-30                    |         | ********  | Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Hong Kong                                   | Jan. 23-Apr. 2                                                    | 121     | 81        | 1 - 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Dairen                                      | Feb. 20-Mar. 6                                                    | 6       | ********  | The state of the s |
| Harbin                                      | Feb. 20-Mar. 6<br>Dec. 16-31<br>Feb. 7-13                         | 3       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                                          | Feb. 7-13                                                         | 1       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Kai-Yuan                                    | Mar. 20-27                                                        | 2       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Mukden                                      | Dec. 5-11                                                         | 1       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

### Reports Received from January 1 to May 20, 1927-Continued

### SMALLPOX-Continued

| Place                       | Date                             | Cases  | Deaths  | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------|----------------------------------|--------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| China—Continued.            |                                  |        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Nanking                     | Dec. 12-25                       |        | -       | Present.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Do                          | Jan. 2-Mar. 5                    |        |         | Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Shanghai                    | Dec. 12-18                       |        | - 1     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Jan. 20-Mar. 26                  | 1      | 2       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Swatow.                     | Nov. 21-27                       |        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tientsin                    | Jan. 16-Apr. 2<br>Aug. 1-Nov. 30 | 27     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chosen                      | Aug. 1-Nov. 30                   | 53     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Jan. 21-Feb. 20                  | 7      | 1       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Seoul                       | Nov. 1-30                        | 2      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Egypt:                      |                                  |        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Alexandria                  | Jan. 8-14                        | 1      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Cairo                       | June 11-Aug. 26                  | . 27   | 4       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Estonia                     | Oct. 1-30                        | 2      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| France                      | Sept. 1-Dec. 31                  | 293    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Paris                       | Dec. 1-31                        | 10     | 3       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Jan. 1-Apr. 10                   | 24     | 4       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| French Settlements in India | Aug. 29-Jan. 1                   | 127    | 127     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Jan. 2-22                        | 24     | 24      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| French Sudan:               | A4 00 4 0                        |        | 1       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Kita                        | Mar. 28-Apr. 3                   |        |         | Present.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Germany:                    | N 00 D 1                         | -      | 1       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Stuttgart                   | Nov. 28-Dec. 4                   | 7      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gold Coast                  | Aug. 1-Nov. 30                   | 59     | 14      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Great Britain:              | Non 14 Ton 1                     |        |         | C 0 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| England and Wales           | Nov. 14-Jan. 1                   |        |         | Cases, 2,262.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Do.                         | Jan. 2-Apr. 23                   |        |         | Cases, 7,263.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Birmingham                  | Mar. 13-19                       | 5      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Bradford                    | Jan. 9-Apr. 23                   | 6      | ******  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Cardiff                     | Feb. 13-19                       | 1      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Leeds                       | Mar. 27-Apr. 16                  | 2      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| London                      | Reported Apr. 28                 | 6      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Monmouthshire               | Feb. 25                          | 22     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Newcastle-on-Tyne           | Dec. 5-13                        | 2      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Jan. 2-Apr. 23                   | 20     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Normanton                   | Dec. 30                          | 1      |         | 9 miles from Leeds.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sheffield                   | Nov. 28-Jan. 1                   | 60     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Jan. 2-Apr. 2                    | 543    | 1       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Wakefield                   | Jan. 30-Feb. 2                   | 2      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Scotland—                   | 35 - 01 1 00                     | -      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Dundee                      | Mar. 31-Apr. 23                  | 97     | ******  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Greece                      | Nov. 1-Dec. 31<br>Dec. 1-31      | 25     | ******* |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Athens                      |                                  | 14     | 2       | * 1 11 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Do                          | Mar. 1-31                        | 9      | 2       | Including Piræus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Guatemala:                  | M 1 D 01                         |        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Guatemala City              | Nov. 1-Dec. 31                   |        | 15      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Jan. 1-Mar. 31                   | ****** | 74      | Clares 00 040. 1 - 41 - 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ndia                        | Oct. 10-Jan. 1                   |        |         | Cases, 22,946; deaths, 6,006.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Do                          | Jan. 2-Feb. 19                   |        |         | Cases, 31,471; deaths, 7,645.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Bombay                      | Nov. 7-Jan. 1                    | 37     | 20      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Colemite                    | Jan. 2-Mar. 26                   | 493    | 264     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Calcutta                    | Oct. 31-Jan. 1                   | 449    | 311     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Vorsehi                     | Jan. 2-Mar. 19                   | 1,876  | 1, 372  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Karachi                     | Dec. 19-25                       | 1      | 1       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Jan. 2-Apr. 9                    | 42     | 25      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Madras                      | Nov. 21-Jan. 1                   | 32     | 2       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Jan. 2-Apr. 9                    | 294    | 11      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Rangoon                     | Nov. 28-Jan. 1                   | 2      | 2       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Jan. 2-Apr. 2                    | 309    | 71      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ndo-China:                  | D                                |        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Saigon                      | Dec. 26-Jan. 1                   | 3      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Feb. 6-Mar. 12                   | 2      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| raq:                        | 0.4 0. 7                         | _      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Baghdad                     | Oct. 31-Dec. 4                   | 7      | 4       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Jan. 23-Apr. 2                   | 7      | 1       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Basra.                      | Nov. 7-13                        | 2      | . 1     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Mar. 20-26                       |        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| taly                        | Aug. 29-Jan. 1                   | 28     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                          | Jan. 2-15                        | 2      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Genoa<br>Do                 | Dec. 30-31                       | 1      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                             | Jan. 1-10                        | 2      |         | the second secon |
| D0                          |                                  |        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| amaicaDo                    | Nov. 25-Jan. 1<br>Jan. 2-Apr. 2  | 37     |         | Reported as alastrim.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Reports Received from January 1 to May 29, 1927-Continued

### SMALLPOX-Continued

| Place                   | Date                                                                | Cases   | Deaths    | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|---------------------------------------------------------------------|---------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tenen                   | Oct. 24-Jan. 1                                                      | 27      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Japan<br>Do             | Jan. 2-9                                                            | 28      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Kobe                    | Nov. 14-20                                                          | 1       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                      | Jan. 23-Apr. 2                                                      | 3       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Yokohama                | Nov. 27-Dec. 3                                                      | 1 2     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                      | Nov. 14-20.<br>Jan. 23-Apr. 2.<br>Nov. 27-Dec. 3.<br>Mar. 26-Apr. 1 | 3       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Java:                   | Contract to the second                                              |         | 1         | Towns I make the second of the |
| Batavia                 | Nov. 29-Dec. 3                                                      | 2       |           | Province.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Do                      | Mar. 13-19                                                          | 11      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| East Java and Madura    | Oct. 24-Dec. 25<br>Jan. 2-27                                        | 4       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do<br>Lithuania         | Nov. 1-30                                                           | 2       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Luxemburg               | Nov. 1-Dec. 31                                                      | 2       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Mexico                  | July 1-Oct. 31                                                      |         | 534       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Mexico                  | Dec. 31                                                             |         |           | Several cases; mild.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Do                      | Jan. 31-Feb. 6                                                      |         |           | Present.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Ciudad Juarez           | Dec. 14-27                                                          |         | . 2       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Manzanillo              | Mar. 5-Apr. 25                                                      | 7       | 5         | the winter complete the service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Mazatlan                | Feb. 14-Apr. 17<br>Nov. 23-Dec. 25                                  | ******  | . 3       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Mexico City             |                                                                     | 6       |           | Including municipalities in Fed<br>eral District.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Nuevo Leon State—       | Dec. 25-Apr. 23                                                     | 7       |           | Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Cerralvo                | Mar. 11                                                             | ******  |           | Epidemic.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Montemorelos            | Feb. 24                                                             |         |           | Reported present.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Monterey                | Feb. 24-Mar. 20                                                     | 64      | 2         | Other cases stated to exist. Cases, 25. Unofficially reported At Nueva Rosita.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Parral                  | Jan. 31-Feb. 6                                                      | ******* | ********  | Cases, 25. Unofficially reported                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Piedras Negras district | Feb. 25                                                             | 68      |           | At Nueva Rosita.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Saltillo                | Feb. 6-Apr. 9<br>Nov. 12-Dec. 18                                    | ******  | 2         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| San Luis Potosi         | Jan. 9-Apr. 9                                                       | ******* | 3 27      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tampico.                | Ian 21-31                                                           | 1       | -         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Torreon.                | Nov. 28-Jan. 1                                                      |         | 12        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                      | Nov. 28-Jan. 1<br>Jan. 2-Mar. 19<br>Feb. 24                         |         | 13        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Victoria                | Feb. 24                                                             |         |           | Present.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Netherlands East Indies | Dec. 14                                                             |         |           | Island of Borneo; epidemic in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Nigeria                 | AugDec. 31                                                          | 165     | 40        | two villages.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Persia:                 | Nov. 22-Dec. 23                                                     |         | 5         | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Peru:                   |                                                                     |         | 1 7       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Arequipa                | Dec. 1-31                                                           | ******* | 1         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                      | Jan. 1-31                                                           | *****   | 1         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Laredo                  | Dec. 1                                                              |         |           | Severe outbreak; vicinity of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Data d                  | Oct 11 Dec 91                                                       |         |           | Trujillo.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Poland<br>Do            | Oet. 11-Dec. 31<br>Jan. 1-8                                         | ******  | ********* | Cases, 32; deaths, 3.<br>Deaths, 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Portugal:               | Jan. 1 S                                                            |         |           | Literation 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Lisbon                  | Nov. 22-Jan. 1                                                      | 43      | 4         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                      | Jan. 2-Apr. 23                                                      | 37      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Rumania                 | Jan. 1-Sept. 30                                                     | 7       | 1         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Russia                  | May 1-June 30                                                       | 705     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                      | May 1-June 30<br>July 1-Sept. 30                                    | 884     |           | the same of the sa |
| Senegal:                |                                                                     |         |           | 1 - 1 - 1 - 1 - 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Dakar                   | Jan. 9-Apr. 3                                                       | 1       |           | The same of the sa |
| Gueudel                 | Apr. 11-17                                                          | 1       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Kebener                 | do                                                                  | 1 3     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Niger Colony<br>Ouakam  | Apr. 1-20<br>Mar. 20-27                                             | 4       | *******   | Vicinity of Dakar.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Tivaouane               | Apr. 11-17                                                          | 2       | ~~~~~~    | vicinity of Dakin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Siam                    | AprJan. 1                                                           |         |           | Cases, 711; deaths, 265.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Do                      | Jan. 2-Mar. 26<br>Oct. 31-Jan. 1                                    |         |           | Cases, 90; deaths, 40.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Bangkok                 | Oct. 31-Jan. 1                                                      | 28      | 10        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do                      | Jan. 2-Mar. 26                                                      | 42      | 25        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sierra Leone:           |                                                                     |         |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Makeni                  | Feb. 22-23                                                          | 3       |           | Dandambar district                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Nanowa                  | Dec. 1-15                                                           | 1       |           | Pendembu district.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Spain                   | July 1-Sept. 30                                                     | 10      | 9         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Valencia                | Feb. 8-Apr. 23                                                      | 10      | *******   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| dumatra:<br>Medan       | Feb. 20-26                                                          | 1       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| traits Settlements:     | F 00. 20-20                                                         | 1       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Singapore               | Oct. 31-Jan. 1                                                      | 12      | 2         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do.                     | Jan 2-Feb 26                                                        | 4       | 3         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Cunisia                 | Oct. 1-Dec. 31<br>Jan. 1-Feb. 20<br>Jan. 1-Mar. 10                  | 9       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Do.                     | Jan. 1-Feb. 20                                                      | 18      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tunis                   | Jan. 1-Mar. 10                                                      | 3       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Reports Received from January 1 to May 20, 1927-Continued

### SMALLPOX-Continued

| Place                                       | Date                    | Cases   | Deaths   | Remarks                                                                             |
|---------------------------------------------|-------------------------|---------|----------|-------------------------------------------------------------------------------------|
| Turkey:                                     | Feb. 1-7                |         |          |                                                                                     |
| Constantinople<br>Union of South Africa:    | Feb. 1-1                |         |          |                                                                                     |
| Cape Province                               | Y 00 00                 |         |          | Outbreaks.                                                                          |
| Albany district                             | Jan. 23-29              |         |          | Do.                                                                                 |
| Caledon district                            | Dec. 5-11               | ******* |          | Do.                                                                                 |
| Steynsburg district<br>Stutterheim district | Nev. 21-27              |         |          | Do.                                                                                 |
| Wodehouse district                          | Jan. 30-Feb. 12         |         |          | Do.                                                                                 |
| Natal—                                      | Jan. 00 Teo. 12         |         |          | 20.                                                                                 |
| Durban district                             | Nov. 7-27               | 9       | ******   | Including Durban municipality.  Total from date of outbreak; Cases, 62; deaths, 16. |
| Orange Free State                           | Nov. 14-27              |         |          | Outbreaks.                                                                          |
| Transvaal                                   | Nov. 21-27<br>Nov. 7-20 | 2       | ******** | Europeans.                                                                          |
| Bethel district                             | Jan. 23-29              | -       |          | Outbreaks.                                                                          |
| Johannesburg                                | Nov. 14-20              | 1       | ******** | o days colonis                                                                      |
| West Africa:                                |                         | -       |          |                                                                                     |
| French Guinea-                              |                         |         |          |                                                                                     |
| Kissidougou                                 | Feb. 19                 |         |          | Present.                                                                            |
| French Sudan—                               |                         |         |          | *                                                                                   |
| Kayes                                       | do                      |         |          | Do.                                                                                 |
| Yugoslavia                                  | Nov. 1-Dec. 31          | 4       | 1        |                                                                                     |
| Do                                          | Jan. 1-31               | 3       |          |                                                                                     |

### TYPHUS FEVER

| Algeria<br>Do     | Sept. 21-Dec. 20<br>Jan. 1-Feb. 20      | 59 | 2                | Cases, 84; deaths, 7. |
|-------------------|-----------------------------------------|----|------------------|-----------------------|
| Algiers           | Feb. 1-Apr. 10                          | 46 |                  |                       |
| Oran              | Mar. 21-Apr. 20                         | 8  |                  |                       |
| Angola:           | 4000.00                                 | 1  |                  |                       |
| Benguela district | Feb. 16-28                              | 1  |                  |                       |
| Argentina:        | * 00. 10 20                             | -  |                  |                       |
| Rosario           | Dec. 1-31                               |    | 1                |                       |
| Do                | Jan. 25-31                              |    | 3                |                       |
| Bulgaria          | July 1-Dec. 31                          | 39 | 5                |                       |
| bulgaria          | Jan. 1-31                               | 7  | 3                |                       |
| Do                |                                         | 39 | 4                |                       |
| Chile             | Sept. 15-Nov. 15                        | 39 | 3                |                       |
| Chillan           | Jan. 1-31                               |    | 0                |                       |
| Concepcion        | Sept. 15-Nov. 15                        | 1  |                  |                       |
| Do                | Jan. 23-29                              |    | 1                |                       |
| Iquique           | Apr. 3-9                                |    | 1                |                       |
| Lebu              | Sept. 15-Nov. 15                        | 0  | 2                |                       |
| Linares           | do                                      | 2  | *****            |                       |
| Los Andes         | do                                      | 8  |                  |                       |
| Santiago          | Sept. 15-Dec. 31                        | 25 | 2                |                       |
| Do                | Feb. 1-28                               | 3  |                  |                       |
| alparaiso         | Sept. 15-Dec. 25                        | 10 |                  |                       |
| Do                | Jan. 2-Apr. 16                          | 6  | 2                |                       |
| China:            | *************************************** |    | -                |                       |
| Antung            | Nov. 22-Dec. 5                          | 4  | the state of the |                       |
| Chefoo            | Oct. 24-Nov. 6                          |    |                  | Present.              |
| Chungking         | Dec. 25-31                              |    |                  | Do.                   |
| Do.               | Feb. 27-Mar. 12                         |    |                  | Do.                   |
| Do                |                                         | 54 | 5                | LPO.                  |
| C                 | Aug. 4-Dec. 31                          |    | 9 1              |                       |
| T)                | Nov. 1-30                               | 1  |                  |                       |
| Do                | Jan. 1-31                               | 2  | 1                |                       |
| zechoslovakia     | Oct. 1-Dec. 31                          | 10 |                  |                       |
| Do                | Jan. 1-Feb. 28                          | 48 |                  |                       |
| gypt:             |                                         |    |                  |                       |
| Alexandria        | Dec. 3-9                                |    | 1                |                       |
| Do                | Jan. 22-Apr. 7                          | 5  | 2                |                       |
| Cairo             | Oct. 29-Nov. 4                          | 1  | 1                |                       |
| Stonia.           | Dec. 1-31                               | 1  |                  |                       |
| Do                | Jan. 1-Feb. 28                          | 13 | 2100200          |                       |
| rance             | Nov. 1-30                               | 1  |                  |                       |
| old Coast         | Sept. 1-30                              | 1  | 1                |                       |
| reece             | Nov. 1-30                               |    |                  | Cases, 12.            |
| Athens            | Nov. 1-Dec. 31                          | 19 | 2                | Casto, as             |
| Do                | Feb. 1-Mar. 31                          | 17 | 91               |                       |
| D                 | Dec. 1-31                               | 2  | 0                |                       |
| Kavalla           | do                                      | 2  |                  |                       |

## Reports Received from January 1 to May 20, 1927-Continued

### TYPHUS FEVER-Continued

| Place                                                                                                                                    | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cases                                    | Deaths   | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Greece-Continued.                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Patras                                                                                                                                   | Jan. 23-29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Ravokan                                                                                                                                  | Dec. 1-31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                                        |          | Section of the second section of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Saloniki                                                                                                                                 | Jan. 25-31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Indo-China:                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | 100      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Tonkin                                                                                                                                   | Aug. 1-31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2                                        |          | The second control of |
| Iraq:                                                                                                                                    | A STATE OF THE STA |                                          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Baghdad                                                                                                                                  | Mar. 6-19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2                                        | 2        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Ireland:                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Clare County—                                                                                                                            | Ton 0.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                                        |          | Suspect.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Tulla district                                                                                                                           | Jan. 9-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |          | suspect.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Donegal County—                                                                                                                          | Mar. 27-Apr. 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5                                        |          | Rural district.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Letterkenny<br>Milford                                                                                                                   | do                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                                        |          | Adding district.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| taly                                                                                                                                     | Aug. 29-Sept. 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                          | Jan. 2-29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |          | Cases, 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Takana parfeeture                                                                                                                        | Dec. 5-25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9                                        |          | Casco, a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tokyo prefecture<br>Tokyo City                                                                                                           | do                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | .5                                       | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Tokyo City                                                                                                                               | Jan. 1-31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| LatviaLithuania                                                                                                                          | Sept. 1-Dec. 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 41                                       | 4        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                          | Jan. 1-31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 24                                       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Do                                                                                                                                       | July 1-Nov. 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |          | Deaths, 576.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mexico                                                                                                                                   | Jan. 9-Feb. 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                        |          | Deaths, ore.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                          | Jan. 9-Feb. J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                        | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Durango                                                                                                                                  | Jan. 1-31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Guadalajara                                                                                                                              | Jan. 25-31<br>Dec. 5-11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9                                        | 1        | Including municipalities in Fed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Mexico City                                                                                                                              | Dec. 5-11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                                        | ******** | eral District.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| n.                                                                                                                                       | T 0 4 09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 96                                       |          | Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Do                                                                                                                                       | Jan. 2-Apr. 23<br>Jan. 30-Feb. 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |          | 100.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Parral                                                                                                                                   | Jan. 30-reb. 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                        | *******  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Nigeria                                                                                                                                  | Sept. 1-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Acre                                                                                                                                     | Dec. 29-Jan. 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Beisan                                                                                                                                   | Dec. 21-27<br>Nov. 23-Dec. 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Haifa                                                                                                                                    | Nov. 23-Dec. 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Do                                                                                                                                       | Dec. 28-Feb. 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Jaffa                                                                                                                                    | Nov. 23-Dec. 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Do                                                                                                                                       | Jan. 11-Feb. 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Majdal                                                                                                                                   | Dec. 28-Jan. 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Do                                                                                                                                       | Jan. 11-Feb. 21<br>Dec. 28-Jan. 3<br>Apr. 5-11<br>Nov. 16-Jan. 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 12                                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Nazareth                                                                                                                                 | MOV. 10~Jan. 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Do                                                                                                                                       | Mar. 1-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Ramleh                                                                                                                                   | Jan. 31-Feb. 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Safad                                                                                                                                    | Dec. 21-Jan. 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Arequipa                                                                                                                                 | Year, 1926                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | 1        | District.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Lima                                                                                                                                     | Oct. 11-Dec. 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | *******                                  |          | Cases, 341; deaths, 27.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Poland                                                                                                                                   | Jan. 1-Mar. 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | *******                                  |          | Cases, 668; deaths, 61.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Do<br>Rumania                                                                                                                            | Aug. 1-Nov. 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 255                                      | 11       | Cases, 608, deaths, or.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                          | Mar I Type 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6,043                                    | **       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Russia                                                                                                                                   | May 1-June 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3, 000                                   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Do                                                                                                                                       | July 1-Aug. 31<br>July 1-Sept. 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3,000                                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                          | July 1-Sept. ov.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Cavilla                                                                                                                                  | Mar 16-99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Seville                                                                                                                                  | Mar. 16-22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Syria:                                                                                                                                   | Mar. 16-22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | 1        | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Syria:<br>Aleppo                                                                                                                         | Mar. 16-22<br>Mar. 13-19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 20                                     | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Syria: Aleppo Tunisia                                                                                                                    | Mar. 16-22<br>Mar. 13-19<br>Oct. 1-Dec. 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30                                       | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Syria: Aleppo Tunisia Do                                                                                                                 | Mar. 18-19<br>Oct. 1-Dec. 27<br>Jan. 1-Feb. 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 30<br>72                                 | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Syria: Aleppo Tunisia Do Tunis                                                                                                           | Mar. 16-22<br>Mar. 13-19<br>Oct. 1-Dec. 27<br>Jan. 1-Feb. 20<br>Jan. 21-Mar. 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30<br>72<br>4                            | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Syria:  Aleppo                                                                                                                           | Mar. 18-19<br>Oct. 1-Dec. 27<br>Jan. 1-Feb. 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 30<br>72                                 | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Syria: Aleppo                                                                                                                            | Mar. 18-19<br>Oct. 1-Dec. 27<br>Jan. 1-Feb. 20<br>Jan. 21-Mar. 31<br>Reported Apr. 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 30<br>72<br>4<br>3                       | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Syria:   Aleppo                                                                                                                          | Mar. 16-22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30<br>72<br>4                            | 1        | I death reported by press                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Syria: Aleppo Tunisia Do Tunis Do Turkey: Constantinople Do                                                                              | Mar. 16-22<br>Mar. 13-19<br>Oct. 1-Dec. 27<br>Jan. 1-Feb. 20<br>Jan. 21-Mar. 31<br>Reported Apr. 13<br>Dec. 12-25<br>Jan. 16-22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30<br>72<br>4<br>3                       | 1        | 1 death reported by press.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Syria:   Aleppo                                                                                                                          | Mar. 16-22.  Mar. 13-19. Oct. 1-Dec. 27. Jan. 1-Feb. 20. Jan. 21-Mar. 31. Reported Apr. 13. Dec. 12-25. Jan. 16-22. Oct. 1-Dec. 31.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 30<br>72<br>4<br>3<br>3                  |          | 1 death reported by press.<br>Cases, 233; deaths, 30.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Syria: Aleppo Aleppo Do Tunis Do Turkey: Constantinople Do Union of South Africa Cape Province                                           | Mar. 16-22.  Mar. 13-19. Oct. 1-Dec. 27. Jan. 1-Feb. 20. Jan. 21-Mar. 31. Reported Apr. 13. Dec. 12-25. Jan. 16-22. Oct. 1-Dec. 31.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 30<br>72<br>4<br>3<br>3                  | 1        | 1 death reported by press.<br>Cases, 233; deaths, 30.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Syria:   Aleppo                                                                                                                          | Mar. 16-22.  Mar. 13-19. Oct. 1-Dec. 27. Jan. 1-Feb. 20. Jan. 21-Mar. 31. Reported Apr. 13. Dec. 12-25. Jan. 16-22. Oct. 1-Dec. 31. Jan. 16-26.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30<br>72<br>4<br>3<br>3                  |          | Cases, 233; deaths, 30.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Syria: Aleppo                                                                                                                            | Mar. 16-22.  Mar. 13-19. Oct. 1-Dec. 27. Jan. 1-Feb. 20. Jan. 21-Mar. 31. Reported Apr. 13. Dec. 12-25. Jan. 16-22. Oct. 1-Dec. 31. do. Jan. 1-Feb. 28. Mar. 13-19.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 30<br>72<br>4<br>3<br>3                  |          | Cases, 233; deaths, 30. Outbreaks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Syria: Aleppo Aleppo Tunisia Do Tunis Do Turkey: Constantinople Do Union of South Africa. Cape Province Do Do Ciydesdale                 | Mar. 16-22.  Mar. 13-10. Oct. 1-Dec. 27. Jan. 1-Feb. 20. Jan. 21-Mar. 31. Reported Apr. 13. Reported Apr. 13. Dec. 12-25. Jan. 16-22. Oct. 1-Dec. 31. do. Jan. 1-Feb. 28. Mar. 13-19. Mar. 6-12.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 30<br>72<br>4<br>3<br>3<br>3             |          | Cases, 233; deaths, 30.  Outbreaks.  Do.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Syria:   Aleppo                                                                                                                          | Mar. 16-22.  Mar. 13-19. Oct. 1-Dec. 27. Jan. 1-Feb. 20. Jan. 21-Mar. 31. Reported Apr. 13. Dec. 12-25. Jan. 16-22. Oct. 1-Dec. 31. do. Jan. 1-Feb. 28. Mar. 13-19. Mar. 6-12. Nov. 21-27.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30<br>72<br>4<br>3<br>3                  |          | Cases, 233; deaths, 30.  Outbreaks. Do. Native: Imported.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Syria: Aleppo Tunisia Do Turkey: Constantinople Do Union of South Africa Cape Province Do Clydesdale East London Port St Johns district. | Mar. 16-22.  Mar. 13-19. Oct. 1-Dec. 27. Jan. 1-Feb. 20. Jan. 21-Mar. 31. Reported Apr. 13. Reported Apr. 13. Dec. 12-25. Jan. 16-22. Oct. 1-Dec. 31. do. Jan. 1-Feb. 28. Mar. 13-19. Mar. 6-12. Nov. 21-27.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 30<br>72<br>4<br>3<br>3<br>3             |          | Cases, 233; deaths, 30.  Outbreaks. Do. Native. Imported. Outbreaks. On farm,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Syria:   Aleppo                                                                                                                          | Mar. 16-22.  Mar. 13-19. Oct. 1-Dec. 27. Jan. 1-Feb. 20. Jan. 21-Mar. 31. Reported Apr. 13. Pec. 12-25. Jan. 16-22. Oct. 1-Dec. 31. do. Jan. 1-Feb. 28. Mar. 13-19. Mar. 6-12. Nov. 21-27. Dec. 5-11. Mar. 20-28.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 30<br>72<br>4<br>3<br>3<br>3<br>47<br>51 |          | Cases, 233; deaths, 30.  Outhreaks. Do. Native. Imported.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Syria:                                                                                                                                   | Mar. 16-22.  Mar. 13-19. Oct. 1-Dec. 27. Jan. 1-Feb. 20. Jan. 21-Mar. 31. Reported Apr. 13. Pec. 12-25. Jan. 16-22. Oct. 1-Dec. 31. do. Jan. 1-Feb. 28. Mar. 13-19. Mar. 6-12. Nov. 21-27. Dec. 5-11. Mar. 20-28.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 30<br>72<br>4<br>3<br>3<br>47<br>51      |          | Cases, 233; deaths, 30.  Outbreaks. Do. Native. Imported. Outbreaks. On farm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Syria:   Aleppo                                                                                                                          | Mar. 16-22.  Mar. 13-10. Oct. 1-Dec. 27. Jan. 1-Feb. 20. Jan. 21-Mar. 31. Reported Apr. 13. Reported Apr. 13. Dec. 12-25. Jan. 16-22. Oct. 1-Dec. 31. do. Jan. 1-Feb. 28. Mar. 13-19. Mar. 6-12. Nov. 21-27. Dec. 5-11. Mar. 20-26. Oct. 1-31. Jan. 1-31.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30<br>72<br>4<br>3<br>3<br>3<br>47<br>51 |          | Cases, 233; deaths, 30.  Outbreaks. Do. Native. Imported. Outbreaks. On farm,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Syria:                                                                                                                                   | Mar. 16-22.  Mar. 13-19. Oct. 1-Dec. 27. Jan. 1-Feb. 20. Jan. 21-Mar. 31. Reported Apr. 13. Pec. 12-25. Jan. 16-22. Oct. 1-Dec. 31. do. Jan. 1-Feb. 28. Mar. 13-19. Mar. 6-12. Nov. 21-27. Dec. 5-11. Mar. 20-28.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 30<br>72<br>4<br>3<br>3<br>47<br>51      |          | Cases, 233; deaths, 30.  Outbreaks. Do. Native. Imported. Outbreaks. On farm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Reports Received from January 1 to May 20, 1927-Continued

### TYPHUS FEVER-Continued

| Place                                                     | Date       | Cases                                           | Deaths                                    | Remarks                    |
|-----------------------------------------------------------|------------|-------------------------------------------------|-------------------------------------------|----------------------------|
| Union of South Africa—Con. Transvaal. Do. Yugoslavia. Do. | Oct. 1-31  | 1<br>1<br>30<br>74                              | 24                                        | Native.                    |
|                                                           | YELLOW     | FEVE                                            | R                                         |                            |
| French Sudan                                              | Dec. 19-25 | 1<br>10<br>4<br>3<br>1<br>1<br>1<br>1<br>2<br>3 | 1<br>5<br>3<br>3<br>1<br>1<br>1<br>1<br>1 | At N'Bake.<br>In European, |

W